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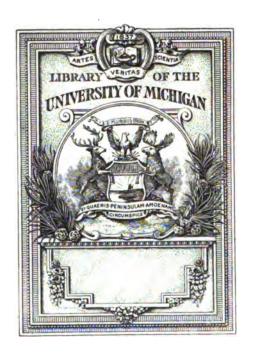
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ANNUAL REPORTS

OF

Officials

AND OF THE SEVERAL

Municipal Departments

OF THE

CITY OF DETROIT

FOR THE YEAR 1900-1901.



DETROIT; THE RICHMOND & BACKUS CO 1902.



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MAYOR'S MESSAGE.

To the Honorable the Common Council:

Gentlemen—It is with great pleasure that I address your honorable body in partial review of what has been attempted and accomplished in the past year and with the expression of hope of more to be accomplished in the year current. As stewards of the important public trusts committed to our care, we should not only for our own information, but for the information of those whom we serve, review in summary that which has been done for them and for our mutual interests as citizens of this city of our homes.

To obtain at minimum cost, and yet without impairment of value the light, fuel, water and every other commodity of like character necessary to our comfort and health, should be the object of our greatest solicitude. The protection of property from fire and flood and the guarding of the lives of our people, as well as in a measure the protection of their moral well-being, is our highest privilege, and by knowing how well those matters of public concern are accomplished in the present, we may be the better fitted to direct them in the future.

In the matter of the transit of our people to and from their homes and places of business in the city, I have in prior communications to your honorable body, and in messages, defined my attitude in this regard, and it need not be repeated here. There is before a special committee of your honorable body a communication advising that every limit of legislation which will serve to put the city in an attitude where it can act for its own best interests in every emergency, be adopted. A demand

so urgent and so manifestly needed, I have no doubt will result in all enabling legislation with which we ought to be invested in the premises.

Local Self-Government.

Having heretofore recommended, I again urge your honorable body to obtain from the legislature authority by which the voters of Detroit may have the power to exercise local self-government in all things appertaining to the city and to its peculiar interests, without interfering with the duty which we owe, like all other citizens, to the State. There should be a full measure of local option in the matter of taxation, giving to the citizen the right to raise municipal taxes in such a manner and on such properties as may to them seem meet and just, and to make exemptions of such property as tools and other equipment in constant use, and therefore wearing out and decreasing in value, and to relieve wholly or in part from the burdens of local taxation such property, thereby encouraging existing industries and the erection and equipment of other manufacturing plants in which labor may be constantly and profitably employed. my own part, I am also in favor of giving to the voters the right to initiate legislation, or to have legislation referred to them for approval before becoming a law, provided a petition therefor be requested by a fair percentage of the voters, and regardless of whether such legislation originated in the legislature or in the Common Council. The benefits to be derived from such a course are obvious and manifold, and the people are thereby at all times their own rulers.

Grade Separations.

Substantial progress has been made in the last year in the separation of grades, and one important separation is now nearing completion. Not only is this result accomplished, but there is every assurance that the plan adopted at the Woodward avenue

crossing can be put in operation from the Milwaukee Junction on the east to the city line on the west. I firmly believe that the division of damages, whereby the railroad companies do all the work of separation, pay all expenses thereof, except the consequential damages to property owners, which is assumed by the city as its only obligation, is most equitable and just. I sincerely trust that the special committee on grade separations may be made one of the regular committees of this council, and that the work of separation be pushed with energy. It will take years to accomplish the completion of the work at best, and every year's delay will involve increased expense to the city, if not to the railroad companies. In the meantime it is apparent that the statute defining procedure in the matter of grade crossings works injustice to the City of Detroit. Possibly it may be said that the statute is not just to any of the cities of the State, and I recommend again, as in the past, that a bill prepared by the Corporation Counsel be submitted to the legislature, after approval by your honorable body, providing for such procedure as the peculiar conditions surrounding grade separations in the City of Detroit seem to demand. While it is hoped that by fair compromise separations may be made in every case, still it is probable that in some sections of the city it will be necessary to enforce the separation by vigorous and well sustained legal procedure.

Boards and Commissions.

The general conditions of the boards and commissions of the city appear in exhaustive annual reports of these several bodies, and convey to your honorable body in detail the transactions of each board and commission. It may be justly said that their present status is commendable and encouraging. The expenditures of public moneys by the several commissions has been accompanied with a great degree of prudence, economy and care.

In fact, it is gratifying that in an investigation recently made by a committee of your honorable body, not one dollar was found to have been misappropriated, but, on the contrary, the expenditures were found to be judicious. The provision of the charter preventing city officers from dealing directly or indirectly with the city in the way of trade is wise in so far as it discourages a city officer from dealing directly with the city through himself, for however honest and upright such dealing might be, it may be tainted with suspicion, and mav also effect of discouraging competition, since the seller and the buyer would be represented in the same person. In my judgment it is the limit of folly, however, to retain in the charter a section which is so construed as to work manifest injustice. The strict construction of the section referred to must cause many who now serve the public without reward to vacate their places. The spirit of the law fairly interpreted was intended to prevent fraud, but should not be construed to prevent a citizen from selling in the usual course of trade to a city board or commission, with which he has no relation. I would recommend that such amendment be made to the provision that while sustaining the purpose of the section in so far as it prevents dealing by a city officer directly with any board or commission, of which he is a member, it should not prevent him or his copartners from selling their goods to the city under contract, or in the ordinary course of trade. I would recommend that the Committee on Charter and City Legislation, with the Corporation Counsel, be requested to present for approval such amendment as will make the interpretation of this section reasonable.

Public Lighting.

The experiment of municipal lighting which is being conducted in Detroit, has, and is, attracting much attention. There is no doubt but that the success or failure of this experiment will

determine largely the future control of city lighting elsewhere. Municipal lighting, to be a success, must develop two essentials first, abundance of light, and second, economy of cost. The time may come when the experience with municipal lighting may be used in obtaining fair and equitable terms for private consumers, and from those producing light as a private enterprise. I am informed that in some cities where experience has demonstrated the cost of production of light, and the wear and tear incident to the operation of machinery, etc., that rules are laid down whereby a certain fair interest on investment is allowed to the parties furnishing light to private consumers, and the rates are fixed to conform to this reasonable income. The one feature of lighting, whether it be public or private, that is difficult to solve, is the constant betterment of means of lighting. So rapid is the improvement in methods by which the light is produced, •both in its quantity and economy, is demonstrated by the fact that if we were to install our electric plant today, some of the things originally installed would be set aside as obsolete, and very much of what we have would be discarded. The very fact that under these conditions so much success has been attained is the very best assurance of success in the future, and, indeed, of greater success than has been already obtained. Every criticism of the results obtained must be carefully weighed, for there are those who are unfavorable to municipal interference in this, as in the matter of all other utilities.

Police Department.

Of this department it is a pleasure to say that never in the history of the city have its affairs been conducted with greater efficiency than at the present time. The claim that life and property are as safe, and the enforcement of the laws as general in Detroit as in any city of the union, must pass unchallenged. The

construction of two new stations complete within the appropriation and another contracted for complete within the money allowed is most commendable, and shows the great care evidenced by the board.

Fire Commission.

This department is administered with ability. The very effective work done by the first fire boat in the protection of the river front and the business portions of the city has been a matter of common observation, and on more than one occasion of fire the cost of the boat and its keeping have been saved in losses. It is confidently asserted and believed that the disastrous fire upon the Campus Martius two years ago would never have gotten so far beyond control were it not for an accident which happened early in the conflict to the fire boat. With two fire boats, and the installment of a pumping station in connection with the lighting plant, the river front and the business portions of the city will be so well guarded and protected that in case of fire but few engines in the immediate vicinity will be summoned, whereas heretofore it has been necessary to summon engines from the most remote parts of the city, thereby leaving such parts for hours absolutely without protection, and in the greatest danger. I am sure we are safe in leaving to the wisdom and discretion of the board any further suggestions that may be demanded for the complete protection of the property of our city.

Water Supply.

In my last communication I took occasion to congratulate our people upon the abundant and pure water supply with which we are blessed. In this last year the board has taken up the further extension of the plant, so as to be abundantly provided against any possible emergency that might for a time diminish the power at the pumping station. The possible presence of danger to our water supply through drainage is becoming more an issue by the increasing population along the shores of Lake St. Clair. The question of the removal of the intake pipe to other and less exposed quarters is constantly before the board of commissioners, and I am sure that when there is the slightest evidence of impending danger steps will be taken to ward off such danger and to anticipate the possibility of any harm by either a change in the pipe or by the establishment of settling or purifying basins, to which reference was made very ably by Commissioner Pendleton in a paper read before the Mayor's council at a recent session.

Parks and Boulevards.

Our parks, and boulevards are splendidly cared for by the commission in charge. I would again renew my suggestion to the board that the project of dredging the river at the lower end of the island and thereby adding 100 acres to its extent be kept in mind, and the work initiated as soon as possible. The extension of the Western Boulevard from its present terminus, near Buchanan street, across the railways to intersect the improvement northerly of Michigan avenue is a need which should be accomplished at the earliest possible day, and the extension of said boulevard from Fort street to the river should not be delayed another year. It is believed that very satisfactory terms can be made with property owners in the immediate neighborhood by which, at a comparatively small expense this outlet to the river may be obtained at once. In view of conditions prevailing at the eastern end of the Boulevard, and the facility of getting to the island park across the bridge, with the Boulevard as a means of approach, it is but a matter of justice that people dwelling upon the Western Boulevard and in the neighborhood thereof should have access to the river with all the comforts and privileges afforded thereby. The boulevarding of Lafayette avenue from Twelfth street to the Western Boulevard is being discussed, and it is probable that the board of Park and Boulevard commissioners may include this desirable improvement in their prospectus of things to be accomplished this year.

It would, in my judgment, be wise to place in the control of the Park and Boulevard Commissioners the matter of planting, caring for and removing shade trees in our streets and avenues. This board has at all times in its employ men especially skilled in this work, and if the planting and trimming of trees were in their charge, the shading of our streets would be accomplished with greater uniformity and increased beauty.

Taxes.

It is pleasing to note that our taxes are not at least increasing, while we are enjoying all the benefits of government for which taxes are collected. The transfer of auditing accounts to the City Controller has been a gratifying success, and I trust will be continued until every expenditure shall pass through a like auditing, and receive the final approval of your honorable body.

It is to be regretted that we are not able, under existing laws, to offer manufacturers the encouragement which they receive in other cities. The assurance of a fair tax rate and the very proper exemption of certain properties in actual use, where the value decreases every day and finally disappears, would be a great source of encouragement to manufacturers, and but a simple act of justice. If some reasonable concessions in this regard could be made, coupled with our splendid river and railway facilities, with intelligent and willing labor and to all these added the comforts of a well-appointed and well-governed city, we should soon be in the front rank of the manufacturing centers of this land.

Let it be borne in mind that such exemptions should not alone apply to new industries, but should extend to all established industries.

The searching out and placing upon the tax rolls of properties heretofore escaping the notice of the assessors is commendable in every way, and I trust will be continued until every dollar of property fairly subject to taxation shall be upon the rolls. This will mean a lower burden of tax upon all and an unjust tax upon none.

There is pending in the Supreme Court of the State of Michigan a very important case, which will decide a new question relating to taxation, viz., whether a franchise is so far in its nature property that it is a legitimate subject of taxation. That such property should bear a share in the burden of taxation is certainly equitable, and the outcome of the controversy is awaited with the deepest interest.

Remodeling of City Hall.

Under section 189 of the charter, page 109, there appears to me present authority for bonding the city for the remodeling or erection of any public building without further legislative enactments or authority, and in this connection I would again call your attention to the necessity for immediately considering the remodeling or possible rebuilding of the city hall. It is certain that the county tenants now occupying the greater portion of the building will be located in the county building within a year, and some provision should be made for the transferring of city offices, now in rented quarters, to the city hall. Whether the building be rebuilt or remodeled, there will be considerable expense attendant upon either process. The necessity for adopting plans and specifications now is pressing, as these should be before your honorable body when the estimates for the ensuing

year are considered. If the expenditure is to be greater than should be put into the tax rolls, it may be desirable to bond the city for that purpose. In this connection let me renew my former recommendation that the plan proposed by the Controller for issuing and retiring bonds be adopted. Under this plan, the future will assist this generation in paying for the permanent improvements now made and by which the future is benefited. Any improvement with an expectant life of thirty years should be classed as permanent. All bonds issued under this plan should contain a provision not only for the payment of annual interest accruing upon the bonds, but for the gradual accumulation of a sinking fund for their redemption at maturity. If two and onehalf per cent upon the principal was raised each year on a bond running thirty years, accumulations of this amount, with the added interest thereon, would be sufficient to redeem the bond at its maturity, while this system so adopted would give the bonds the highest possible value, or, in other words, they could be sold at the very lowest rate of interest.

Under the provisions of the charter limiting the bonding of the city to two per cent of the estimated value for taxing purposes, there remains something over \$800,000, outside of this limit, for the city to avail itself of.

Garbage Plant.

While the collection and disposal of garbage in the City of Detroit is as well done as it could possibly be under private control, and I have no complaint to make in this direction, still I am of the opinion that the collection and disposal of garbage is so related to the general health of the community that the disposal of it should be always in public control. I therefore renew my recommendation, made three years ago to your honorable body, that the city purchase and operate its own plant. The time

is opportune, because the current contract expires on the 30th of June ensuing, and I am informed by the Controller that there is a provision in the existing contract whereby the city may, by purchase, upon certain conditions, become the owner of the plant, should this be its desire. The whole subject-matter should be taken up promptly, in order that whatever action is necessary be taken relative to an appropriation or bonding for this public necessity at the next session of the board of estimates.

Assessments.

The recent litigation regarding assessments for local improvements demonstrates the fact that an early revision of the system of making these assessments for all purposes should be made, and such legislation obtained as will put the legality of such assessments beyond doubt. In connection therewith a revision of the ordinances providing modes of procedure should receive attention. As this whole subject-matter has come within the personal knowledge and experience of the Corporation Counsel, I would respetfully urge that the matter be referred to him for the preparation of such laws and ordinances as the emergency seems to require.

Sidewalks.

Stone sidewalks should be substituted for plank as rapidly as possible, but before this is undertaken provision should be made whereby bonds may be issued, as in the case of street paving, and in this way the lot owner should be allowed a term of from one to three years to pay for the improvement. It would then be less of a burden than the laying and repairing of plank sidewalks is today. The expense of laying a stone sidewalk is less than double that of the ordinary plank walk, and while one lasts but a short time without repair, the other will last for a long

period, without expense of repair. If therefore the first burden of paying for the improvement can be taken from the shoulders of the taxpayer by affording more time, he would pay the larger sum with far less inconvenience and would obtain for his outlay an improvement which would be economy in the end. To a certain extent the value of the citizen's property is also increased by this improvement. The city in the meantime would be benefited in the lessening of claims for injuries received on defective sidewalks. In fact, so burdensome have these claims become in certain cities of the Union that cities have in many instances advanced their credit for the laying of stone sidewalks, in order that the occasion for these claims might be done away with. This subject is worthy of the attention of the committee on charter amendments.

Street Railway Ordinances.

There is pending in the Supreme Court of the United States a suit begun to determine the validity of certain ordinances passed by your honorable body, fixing a three-cent fare. This case will be argued before that tribunal, it is hoped, within a short time, and the value of the ordinances determined. I again express confidence that the ultimate result of this controversy will be a victory for the city.

Schools.

The schools of our city and the proceedings for their government seem to be well conducted in the hands of your co-ordinate body, the board of education. I desire to recommend the very earnest effort made by the board to keep within the expenditures allowed, and especially in the matter of school building, in keeping as near the appropriations made for such buildings as is possible.

Aquarium.

At the last session of the legislature an act was passed providing for the bonding of the city for \$150,000 to erect a horticultural building and aquarium on Belle Isle. The bonds have been negotiated and the moneys placed at the disposal of the board of Park and Boulevard commissioners, but is as yet unexpended. Very serious doubt arose as to whether a horticultural building or aquarium on Belle Isle would be a success, in view of the desertion of the island through the months of late fall, winter and early spring. It is important that the bill passed for this improvement should be amended so as to permit the board to spend the moneys on the erection of the buildings in such park or place as is found best adapted to the purpose.

Asphalt Paving.

The direction of your honorable body that an asphalt repair plant be erected is both wise and opportune and will result in saving a considerable amount of money in yearly expenditure on the large number of streets already paved with asphalt. While I am not opposed to asphalt when properly compounded and laid, it is still my opinion that we should make haste slowly in laying more of this pavement until we are assured of better results than have been attained in the past.

Public Baths.

I again recommend for your consideration the matter of public baths in convenient places along the river front, and especially for winter use. The comfort, convenience and health to be conserved by this move is so apparent as to need no discussion.

Cleaning Streets and Alleys.

To keep the streets and allevs of Detroit clean and maintain the enviable reputation so long enjoyed, requires an expenditure of considerable energy and no small amount of money. An idea of the volume of the work may be imagined by the fact that the century's close found Detroit with 278 miles of paved streets out of a total mileage of streets in the entire city of about 550. This does not include the allevs. The service of street and alley cleaning has been extended and improved in the center of the city-first and second wards-by the addition of white wings, and everything has been done to make the streets and alleys in the heart of the city presentable at all times. The old cobblestone alleys in the downtown district are rapidly becoming displaced by vitrified brick on concrete foundation, and almost as much attention is bestowed upon them in the matter of cleaning as upon the main thoroughfares. The following table shows money expended during the past five years for care of streets and alleys, the mileage of paved and unpaved streets being given:

For fiscal year 1805-6, miles of paved streets, 225; miles of unpaved streets, 325; expenditure, \$110,710.

For fiscal year 1896-7, miles of paved streets, 235; miles of unpaved streets, 315; expenditure, \$106,716.

For fisal year 1897-8, miles of paved streets, 250; miles of unpaved streets, 300; expenditure, \$122,993.

For fiscal year 1898-9, miles of paved streets, 260; miles of unpaved streets, 290; expenditure, \$147,381.

For fiscal year 1890-co, miles of paved streets, 269; miles of unpaved streets, 281; expenditure, \$159,209.

For the fiscal year 1900-1, \$153,000 was allowed: disbursements from July 1, 1900, to January 1, 1901, \$103,243, of which \$21,800 was money borrowed from the house of correction fund

the previous year, leaving a balance at the beginning of the present year of \$83,443.

The paving and repaving of alleys has been greatly hampered during the past season by the fact that contractors refused to submit bids on certain alleys on which they feared the assessments would not be paid by the abutting property owners. The necessity of well paved alleys kept in a sanitary condition in a city like Detroit is very apparent. The charter should be amended so that bonds could be issued for this character of work the same as in the case of paving streets or building public sewers.

Conclusion.

I congratulate your honorable body upon the very favorable conditions of prosperity and health existing in our community today, and ask from your honorable body that co-operation in the future, which has made my relations with your predecessors most agreeable and pleasant. Having but one purpose in view—the public good—let our differences be only those that proceed from an honest difference of opinion, unprejudiced by political bias, and with an eye always to what is for the best interests of our city and its people.

Respectfully submitted,

WILLIAM C. MAYBURY.

Mayor.

ANNUAL REPORT

OF THE

CONTROLLER

OF THE

CITY OF DETROIT

OF THE

Receipts and Expenditures

OF THE CORPORATION

FOR THE FISCAL YEAR ENDING JUNE 30, 1901.



DETROIT: thos. smith press, city printers 1902.

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CONTROLLERS OF THE CITY OF DETROIT.

1850-1901.

Prior to 1850 the duty of auditing the accounts and claims against the corporation was performed by the Common Council, and statements showing the financial condition of the City were published at irregular intervals by the Committee on Ways and Means, the City Clerk or the City Treasurer. By an Act of the Legislature, approved March 11, 1844, the Common Council was given power to appoint a City Auditor whose term should be three years and whose duty it should be to audit all accounts and claims against the City, and to examine and adjust at least once in three months, the accounts of all officers of said City, his compensation to be fixed by the Common Council.

No steps were taken by the Common Council to exercise the authority thus conferred until April 23, 1850, when an ordinance was adopted prescribing the duties of the Auditor and fixing the salary at \$1,250 per annum. Immediately upon the adoption of the ordinance, Charles G. Hammond was appointed City Auditor, and upon his declination of the office, Amos T. Hall, a member of the Common Council, was appointed.

By the Act of February 12, 1855, the title "City Auditor" was changed to "City Comptroller." The word "Comptroller was used until 1857, when it was changed to "Controller," for what reason the records do not show, and that form of spelling has continued, as a rule, until the present time.

In January, 1854, the salary of the office was increased to \$2,000; in January, 1862, an assistant having been authorized it was cut to \$1,600; a year later it was raised to \$1,800, and in December, 1865, to \$2,500. In January, 1872, the salary was fixed at \$2,990, and in January, 1873, it was made \$3,000, at which amount it has remained to the present time.

By the Act of June 7, 1883, the appointment of Controller was vested in the Common Council upon nomination of the Mayor.

The following is a list of Controllers:

а	Amos T. Hall
	CHARLES PELTIERJuly, 1854—Apr., 1859.
b	J. M. EdmundsApr., 1859—Mar., 1861.
	Benjamin L. Webb
c	D. C. Whitwood
d	A. H. REDFIELDOct., 1863—Jan., 1868.
	B. G. StimsonJan., 1868—Apr., 1871.
	E. I. GARFIELDApr., 1871—Apr., 1877.
	H. P. BridgeApr., 1877—July, 1883.
e	L. S. TrowridgeJuly, 1883—Feb., 1885.
	A. ChesebroughFeb., 1885—July, 1886.
	WILLIAM B. MORANJuly, 1886-July, 1889.
e	John B. MoloneyJuly, 1889—Jan., 1890.
	Ретек Rush
f	C. A. BlackSept. 1892—Apr., 1893.
g	Patrick BarryApr. 1893-June, 1893.
	C. W. MooreJune, 1893—July, 1895.
	F. A. BladesJuly, 1895—

- a Resigned on account of impaired health.
- b Resigned to accept position of Commissioner of General Land Office.
- c Resigned on account of private business.
- d Resigned on account of impaired health.
- e Resigned.
- f Granted leave of absence in April, 1893, and before his return resigned.
- g Deputy Controller and appointed Acting Controller by the Common Council during absence of and until the resignation of C. A. Black and appointment of C. W. Moore.

Office of the CONTROLLER,

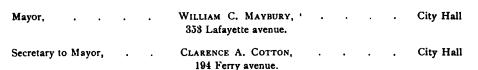
Room 15, City Hall.

STAFF, - - 1901.

FRANCIS A. BLADES,	-		-		•		-	- Controller
HOWARD C. BECK, -		-		-		-		Deputy Controller
JOHN T. THOMPSON,	-		-		-		-	- Chief Clerk
FRANK H. GLADDING,		-		-		•		- Bookkeeper
GEORGE J. FINN,	-		-		-		•	- Entry Clerk
ADAM BETZING, JR., -		-		-		-		- Warrant Clerk
JOSEPH L DWYER,	-		-		-		-	- Stenographer
DENIS J. CUMMINGS,		-		-		-		- Assistant Clerk
JOHN STORM, -	-		-		-			Custodian of Records
GEORGE C. LANGDON,				_		-		- Storekeeper

LIST OF CITY OFFICERS.

JULY 1901.



City Controller, . . . FRANCIS A. BLADES, City Hall 419 Cass avenue.

Deputy Controller, . . . Howard C. Beck, City Hall 103 Brainard street.

City Clerk, . . . John A. Schmid, City Hall 1385 Frederick street.

Deputy City Clerk, . . . Charles R. Forster, City Hall 1017 Concord avenue.

Corporation Counsel, . . . TIMOTHY E. TARSNEY, Majestic Building
14 Madison avenue.

Chief Ass't Corporation Counsel, JOHN W. McGrath, . . . Majestic Building 864 Cass avenue.

Assistant Corporation Counsel, . P. J. M. HALLY, . . . Majestic Building 1178 Fourteenth avenue.

Assistant Corporation Counsel, . Albert B. Hall, . . . Majestic Building 41 Van Dyke Place.

Assistant Corporation Counsel, CHARLES E. LOVE, Majestic Building 1587 Russell street.

City Treasurer, . . , Wm. B. Thompson, - City Hall . 482 Twelfth street.

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ANNUAL REPORT OF THE

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Deputy City Treasurer,	dl
Receiver of Taxes, THOMAS M. LUCKING, City Ha 205 East Grand Boulevard.	dl
Assistant Receiver of Taxes, FRED J. SCHULTE, City Ha 505 Seventeenth street.	ali
City Assessor, Jos. H. Hansjosten, City Ha	dl
City Assessor,	all
City Assessor, Benjamin Guiney, City Ha 226 Orchard street.	all
Chief Clerk, Assessor's Office, MICHAEL HALLORAN, City Ha 566 Champlain street	di
Clerk of Western Market, GEO. HUNGERFORD, Western Market 24 Savoy street.	et
Clerk of Eastern Market, Eastern Mark 882 Antietain street.	:et
Chief Accountant, Francis J. Ducat, City Ha 685 Twenty-third street.	all
Boiler Inspector,	ng
License Collector, GEORGE ENGEL, Police Headquarte	
294 Rivard street.	ers
Engineer City Hall, Frederick Leadbeater, City Ha 441 Twenty-fourth street.	
Engineer City Hall, Frederick Leadbeater, City Ha	all

COMMON COUNCIL.

OFFICERS.

President......JACOB J. HAARER President Pro Tem.....JOHN J. STEIGER City Clerk......JOHN A. SCHMID Deputy City Clerk.....CHARLES R. FORSTER Secretary of Committees. E. R. SCHREITER, Jr. Sergeant-at-Arms......EUGENE SULLIVAN Messenger.....FRANK ERNEST

ALDERMEN.

FIRST WARD.

WALTER H. COOTS......54 Hancock ave. e. WILLIAM H. BEAMER...83 Piquette ave. e. SECOND WARD. RICHARD P. JOY.......971 Woodward ave. EDWIN JEROME......109 Washington ave.

THIRD WARD.

FOURTH WARD.

FIFTH WARD.

SIXTH WARD.

SIVENTH WARD.

EIGHTH WARD.

WILLIAM C. HOUGHTON.....241 Avery ave. WM. W. MAGEE, JR........1142 Twelfth st.

NINTH WARD.

TENTH WARD.

PLEVENTH WARD.

IWELFTH WARD,

OTTO REINHARDT......775 Twenty-fifth st. HENRY A. WEBER.....967 Michigan avc.

THIRTEENTH WARD.

JOHN J. STEIGER.......200 Kanter ave. VACANCY-(Michael Miller, deceased.

FOURTEENTH WARD.

WILLIAM F. MOELLER......636 Clark ave. HENRY C. NEVERMANN JR.138 Brandon ave.

FIFTEENTH WARD.

ì

VACANCY—(Jos. H. Hanjosten, resigned.) OSCAR B. MARX.......1158 Mt. Elliott ave.

SIXTEENTH WARD.

EDMUND ATKINSON 67 Thirty-fourth st. DANIEL CAMPBELL 109 Ferdinand ave.

SEVENTEENTH WARD.

WILLIAM HILLGFR......1822 Jefferson ave. FREID W. SMITH........1486 Forest ave. e.

STANDING COMMITTEES.

Ways and Means—Ald. Coots, Barrie, Liphardt, Houghton, Freds. Meet Tuesday, 10:30 o'clock a. m., Committee Room.

Claims and Accounts—Ald. Koch, Wildman, Magee, Hillger. Tossy. Meet Tuesday, 2 c'clock, p. m., Committee Room.

Judiciary-Ald. Joy, Smith, Weiler. Meet on call.

Franchises—Ald, Barrie, Smith, Marx, Weber, Snow. Meet on call.

Grade Separative—Ald. Beamer, Coots, Koch, Weibel, Atkinson. Meet on call.

Streets-Ald. Reinbardt, Jerome, Houghton. Meet Monday, 10:30 o'clock a. m., Committee Room.

Fire Limits-Ald. Magee, Keenig, Mohn. Meet on call.

House of Correction—Ald. Koenig, Jerome, Delmel. Meet on call.

Public Puildings—Ald. Liphardt, Koenig, Snow. Meet on call.

Sewers—Ald. Stelger, Keating, Atkinson. Bleet Thursday, 11 a. m., Committee Room.

Taxes—Ald, Smith, Wildman, Campbell, Meet Thursday, 10 a. m., Cemmittee Room,

Street Openings—Ald Steiger, Moeller, Mc-Guire. Meet Thursday, 2 o'clook p. m., Com-mittee Room

Printing-Ald. Koenig, Wildman, Meet on call.

Markets-Ald. Moeller, Reinhardt, Weiler. Meet on call.

Public Lighting-Ald. Wildman, Keating, Mohn. Meet on call.

Parks and Boulevards-Ald, Marx, Moeller, Lemke. Meet on call.

Ordinances—Ald. Joy, Nevermann, Hillger. Meet Wednesday, 2 o'clock p. m., Committee Room.

Pounds-Ald. Maix, Smith, Tossy. Meet on

Health-Ald. Moeller, Beamer, Delmel. Meet on call

Licenses-Ald. Jerome, Barrie, Mohn. Meet on call.

City Hospitals-Ald. Koenig, Magee, Campbell. Meet on call.

Liquor Bonds—Ald. Nevermann, Liphardt, Lemke. Meet on call.

Rules-Ald, Keating, Magee, Freda. Meet on call.

Charter and City Logislation—Ald. Smith, Kenting, Jerome, Weber, Atkinson. Meet on call.

Bridges—Ald. Jerome, Marx, Hillger, Snow, Weibel. Meet on call.

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BOARD OF ESTIMATES.

AT LARGE

- 1st Ward-William W. Hannan, 72 Winder st. Dewitt H. Taylor, 25 Alfred st.
- 2d Ward-Fred A. Robinson, 556 Cass ave. James B. McKay, 33 Canfield ave.w.
- 3d Ward Walter Beckwith, 169 Elizabeth st. e. William H. Butterfield, 1495 Hastings st.
- 4th Ward-Samuel S. Babcock, 163 Merrick ave.
 Albert M. Henry, 158 Fort st. w.
- 5th Ward-Frank J. Wuellner, 696 Russell st. A. J. Schulte, 241 Clinton ave.
- 6th Ward—Fred W. Kubitzskey, 387 Michigan ave. Hugh R. Burns, 329 Warren ave. w.
- 7th Ward—William A. Schneider, 369 Monroe ave. Martin Praciszewski, 423 Willis ave e.
- 8th Ward-John J. Schulte, 466 Thirteenth st. William W. Robinson, 489 Trumbull ave.
- 9th Ward-Frank J. St. Aubin, 576 St. Aubin ave, John B. Peters, 375 St. Aubin ave.
- 10th Ward—William Cox, 475 Sixteenth st. Dayton S. Hallock, 760 Fort st. w.
- 11th Ward—Albert A. Ramsay, 655 Champlain st. John J. Mundt, 751 Joseph Campau ave.
- 12th Ward-Joseph Tuchooki, 452 Linden st.
 Arthur E. Howlett, 753 Maybury
 Grand 8ve.

- 13th Ward-Milton C. L. Teagan, 394 Elmwood ave, James Common, 646 Mullett st.
- 14th Ward.—John B. Chapman, 1111 Hancock ave. w. William Husen, 644 Scotten ave.
- 15th Ward-Henry Bloss, 1368 Gratiot ave. George W. Mutter, 303 Meldrum ave.
- 16th Ward-Hiram L. Rose, 159 Harvey ave. Charles Falklam, 603 Military ave.
- 17th Ward-Louis Colquitt, 2076 Gratiot ave. George J. Bickel, 179 Baldwin ave.
- D. W. H. Moreland....Commissioner of Public Works.
- Frank C. Andrews......Commissioner of Police
- Robert E. Bolger......Commissioner of Parks and Boulevards

EX-OFFICIO.

- JACOB J. HAARER, President Common Council.
- WALTER H. COOTS, Chairman Committee Ways and Means.
- FRANCIS A. BLADES, City Controller.
- TIMOTHY E TARSNEY, Corporation Counsel.
- EDWARD F. MARSCHNER, President Board of Education.
- JOSEPH J. NOEKER, President Water Commission.
- FRED T. MORAN,
 President Fire Commission.
- SIGMUND SIMON,
 President Poor Commission.
- DAVID W. SIMONS,
 President Public Lighting Commission.
- MARVIN PRESTON,
 Senior Member Board of Inspectors of
 House of Correction.

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MISCELLANEOUS.

PUBLIC LIGHTING COMMISSION.

FDGAR H. McCURDY185 Canfield ave. w.	
JAMES E. DAVIS144 Lafayette ave.	
FREDERICK F. INGRAM409 Lafayette ave.	
DAVID W. SIMONS64 High st. e.	
JOHN ERHARD337 Alfred st.	
HAMILTON CAPHARTT 843 Jefferson ave.	
PresidentDAVID W. SIMONS	
Vice-PresidentEDGAR H. McCURDY	
SecretaryFRANK T. BOWLER	
City Electrician and General Superintendent	
WILLIAM X DALY	

METROPOLITAN POLICE COMMISSION.

Commissioner	FRA	NK C.	ANDREWS
Secretary			E ENGEL
294	Rivard	øt.	

......JOHN J. DOWNEY SuperintendentJOHN 436 Lincoln ave.

CAPTAINS.

JESSE MACK486 Fourth ave.
A. H. BACHMANN412 Putnam ave.
E. F. CULVER26: Second st.
A. BAKER80 Horton ave.
WM. H. THC/MPSON145 Labrosse st.
WM. NOLAN725 Congress st. e.
JOHN T. SPILLANE517 Fourth ave.
JAMES McDONNELL633 Baker st.
LEMUEL GUYMAN342 Butternut st.
GEO. HEIGHO89 Farnsworth ave.
C. C. STARK WEATHER 119 Milwankee ave. e.
A. J. ROGERS175 Forest ave. e.

HOUSE OF CORRECTION.

MARVIN PRESTON33 High st. e.
W. J. CHITTENDEN134 Fort st. w. JEREMIAH DWYER692 Jefferson avc.
GEORGE E. AVERY50 Selden ave.
Chairman
386 Alfred st.

COMMISSIONERS OF SINKING FUND.

WILLIAM C. MAYBURY, Mayor.

FRANCIS A. BIADES, Controller,
WM. B. THOMPSON, Treasurer,
And the Committee on Ways and Means of Common Council.

BOARD OF EDUCATION.

PresidentED	
Treasuror	H. R. ANDREWS
1450 Grand Div	

SCHOOL INSPECTORS

Ward.

- MAURICE R. MARR, 152 Woodward ave EDWIN S. SHERRILL, 270 Woodward ave. PETER GUENTHER, 40 Fort st. w. LUMUS C. NEWTON, 555 Second ave. CHARLES E. LOVE. 1010 Majestic Bldg. CRRIN I. PRICE, 48 Woodward ave. JOHN B. TODENBIER, 132 Antielam st. HORACE G. SMITH, 639 Trumbull ave. WILLIAM J. LEE, 1303 Chene st. G. F. JOHNSON, M. D., 621 Sixteenth st. Wm. J. GENTSCH, 29 Monroe ave. JOHN F. W. VERGUOW, 93 Maybury ave. ALBERT HELY, 178 McDougall ave. LOUIS GOLDBERG, 1086 Michigan ave. EDWARD F. MARSCHNER, 980 Meldrum ave.

- 10.
- 11.
- 14. 15.
- AVE. JOSEPH P. SHIVERS, 388 Campbell ave. JOHN F. BENNETT, 1993 Jefferson ave.

DETROIT LIBRARY COMMISSION.

C, HENRI LEONARD18 John R. st.
JOHN S. GRAY37 Woodbridge st. e.
JOHN E. CLARK, M. D18 John R. st.
MAYNARD D. FOLLIN104 Jefferson ave.
JAMES E SCRIPPS
GEORGE OSIUS322 Field ave.
Ex-Officio-E. F. MARSCHNER
980 Meldrum ave.
President
Vice-PresidentJOHN S. GRAY
SecretaryJAMES E. SCRIPFS
Treasurer, ex-officioHENRY R. ANDREWS
Librarian

BOARD OF POOR COMMISSIONERS.

SIGMUND SIMON	
JOHN S. QUINN	627 Cass ave.
OTTO SCHERER, M	
FRED POSTAL	
President	
Vice-President	JOHN S. QUINN
SecretaryI	ATRICK H. DWYER
Superintendent of Poor	
740 Monr	oe ave.

CITY PHYSICIANS.

BOARD OF WATER COMMISSIONERS.

JOSEPH J. NOEKER JOHN ZYNIA. EDWARD W. PENDLE'I DARIUS D. THERP JOSEPH J. CROWLEY. President Vice-President General Manager. Secretary.	
SecretaryDigitized	PA GRADO GIGHET

-CONTINUED.

, MICCELLANEOUS
MISCELLANEOUS-
BOARD OF HEALTH.
J. B. KENNEDY, M. D289 W. Grand Boulevard.
JOHN L. IRWIN, M. D280 Third st.
JOHN N. BAGLEY 881 Jefferson ave. SAMUEL T. DOUGLAS 407 Jefferson ave.
President
SecretaryJOHN F. McKINLAY
16 Second ave.
Health OfficerGUY L. KIEFER, M. D.
355 St. Aubin ave.
_
BOARD OF FIRE COMMISSIONERS.
FRED T. MORAN415 Jefferson ave.
OREN SCOTTEN1085 Fort st, w.
FRANK H. CROUL168 McDougall ave.
JOHN LENNANE 176 Porter st.
PresidentFRED T. MORAN
Vice-PresidentOREN SCOTTEN SecretaryGEORGE W. STOCKWELL
938 Warren ave. e.
Chief of the Fire Department,
JCHN KENDALL306 Fort st. e.
Assistant Chiefs of the Department.
JAMES C. BRODERICK149 Clifford st.

DOLLIN INCLUDED TO TOTAL PL.
PresidentFRED T. MORAN
Vice-PresidentOREN SCOTTEN
SecretaryGEORGE W. STOCKWELL
938 Warren ave, e,
Chief of the Fire Department.
JCHN KENDALL306 Fort st. e.
Assistant Chiefs of the Department.
JAMES C. BRODERICK 149 Clifford st.
JOHN O'NEIL
WM. H. HARRIS822 Antoine st.
GEORGE J. KELLY
MAX F. W. WIRTH301 Alfred st.
J. W. MATHEWSON14 Greenwood ave.
D. W. CARROLL146 Pine st.
Superintendent of Apparatus,
FRANCIS BEAUFAIT354 Congress e.
Superintendent of Horses
MARTIN COONEY320 Leland st.
Fire Marshal.
WM. H. BAXTER215 Jos. Campau ave.
Accistant Fire Marshal.
JOHN McDUFF871 Third ave.
Superintendent of Telegraph.
W. J. GARDINER195 Larned st. e.
Assistant Superintendent of Telegraph.
LOUIS GASCOIGNE165 Parker ave.

DEPARTMENT OF PUBLIC WORKS.

Com	nissionerD. W. H. MORELANI
Char	557 Third ave.
Decre	659 Second ave.
City	EngineerS. A. FERGUSON
	487 Lincoln ave.

PARK AND BOULEVARD COMMISSIONER

Relle Isle.	D. BOLKIDE
Secretary	HURLBUT D. HEALY

BUILDING INSPECTORS.

	111 Elizabeth st. e. 360 Erskine st.
JOHN E. CALNON	
Secretary	JAMES G. SIDEY

HISTORIOGRAPHER.

RECORDER'S COURT.

JUDGES.					
ALFRED J. MURPHY	189 Case ave.				
JAMES PHELAN	206 Wabash ave.				
Clerk	JOHN A. GROGAN				
219 Second	ave.				

	DEPUTY	CLERKS.	
			Antoine st.
THOS. P.	PENNIMAN	420	Second ave.
			Hastings st.
JOHN R.	BARLOW	1093 L	afayette ave.

JUSTICES' COURTS.

FELIX A. I.EMKIE546 Fifteenth	st.
FRED E. DeGAW	øe.
JOHN B. TEAGAN714 Fourteenth as	٧e.
CHRISTOPHER E. STEIN 1643 Michigan av	ve.
Chief Clerk	ųΝ
348 Trumbull ave.	

POLICE COURT,

ALBERT F. SELLERS298 Hancock ave. w.
JOHN B. WHELAN286 Merrick ave.
Clerk of Court,
THOMAS F. FARRELL 381 Pennsylvania ave.
Assistant Clerks.
NOAH A. ROUNDS741 Trumbull ave.
WALTER E. MOLSTER 419 Concord ave.
HOWARD WHELAN332 Kirby ave. w.

WEIGHMASTERS.

District District		

POUND MASTERS AND WOOD INSPECTORS.

Eastern	District	HENRY	F7.	VOGT
Western	District	w	M.	FINK

INSPECTOR OF CHIMNEYS.

DOCK	w	BUADEZ	 Griswold	sat

CONSTABLES.

•	• • •
ist Ward	JAMES J. GRIFFIN
2d Ward	ROLLIN C. SPRAGUE
ard Ward	JOHN Y. BOIELLE
4th Ward	DAVID W. FOX
5th Ward	WM. A. BOLAND
(th Ward	JOHN MARSHALL
7th Ward	
Sth Ward	NOBLE BOSTWICK
9th Ward	JOSEPH SCHMELZER
10th Ward	ORKIN H. BUTTERFIELD
11th Ward	AUGUST RICHER1
12th Ward	SHERMAN LITTLEFIELD
15th Ward	HENRY WEICHMANN
14th Ward	S. FRANK O'DELL
15th Ward	
16th Ward	THOS. L. SARVIS
1745 Word	RICHARD GIFF JR

ANNUAL REPORT

OF THE

CONTROLLER

OF THE

CITY OF DETROIT.

Office of the Controller, July 1, 1901.

To the Honorable the Common Council:

Gentlemen:—In submitting my sixth annual report as Controller of the City of Detroit, as required by section 76 of the City Charter, I have the honor to report that at the close of business for the fiscal year, June 29, 1901, the books of the city were balanced and all of the city's moneys properly accounted for.

I herewith submit a statement showing the condition of the funds of the city, the receipts and disbursements of the City Treasurer during the year, the bonded indebtedness and such other miscellaneous information as the Controller is required by law to include in his report, classifying all under their respective heads:

TREASURY BALANCE.

The balance in the city treasury June 30, 1900, was:		
To the credit of the sinking fund\$ 408,735 48		
To the credit of the various other funds 1,157,099 64		
 \$1	1,565,835	12
Receipts during the year		
	5,920,006	<u> </u>
Disbursements during the year	5,463,488	43
Balance in the city treasury, June 29, 1901:		
To the credit of the sinking fund		
·	1,456,517	66
INDEBTEDNESS.		
The entire bonded indebtedness of the City of Detroit (not including the debt of the Water Commission, which bonds are by law, not covered by the 2 per cent limit, nor the street paving bonds, which are secured by special assessments on abutting property), June 30, 1900 was\$	5,074,000	00
During the year there were issued: Public school bonds		
Leaving bonds outstanding June 29, 1901\$ Classified as follows:	5,324,000	00
Public sewer bonds\$	1,800,000	00
Public improvement bonds	550,000	00
Park improvement bonds	550,000	00
Boulevard improvement bonds	500,000	00
Park and Boulevard bonds	230,000	00
Public school bonds	1,006,000	00
Public lighting bonds	650,000	00
Public building bonds	38,000	00
	5,324,000	00

SINKING FUND.

Means on hand for paying this indebtedness being the resources of the	
Detroit city sinking fund:	
Cash in the hands of the Commissioners\$ 348,988 74	4
SECURITIES, (PAR VALUE.)	
Bonds issued by the Water Commissioners:	
3 bonds of \$1,000 each, Nos. 14, 16 and 23, payable Aug. 1, 1902 (7 per cent)\$ 3,000 00	
2 bonds of \$1,000 each, Nos. 32 and 33, payable Aug. 1, 1903 (7 per cent)	
7 bonds of \$1,000 each, Nos. 1, 2, 3, 26, 27, 28 and 29, payable Feb. 1, 1904 (7 per cent) 7,000 00	
2 bonds of \$1,000 each, Nos. 84 and 173, payable Aug. 1, 1904 (7 per cent)	
2 bonds of \$10,000 each, Nos. 203 and 205, payable Aug. 1, 1904 (7 per cent)	
21 bonds of \$1,000 each, Nos. 206, 207, 214, 220, 222, 226, 227, 228, 233, 234, 235, 236, 282, 288, 289, 324, 325, 326, 327, 328 and 329, payable June 1, 1905 (7 per cent)	
10 bonds of \$1,000 each, Nos. 356, 357, 379, 381, 382, 383, 384, 385, 498 and 499, payable June 1, 1906 (6 per cent)	
50 Public Improvement bonds, of \$1,000 each, Nos. 677 to 726 inclusive, payable July 1, 1926 (4 per cent)	

2 Public Improvement bonds of \$1,000 each, Nos. 444 and 445, payable Dec. 31, 1916 (4 per cent)	2,000 00
38 Public Building bonds of \$1,000 each, Nos. 1 to 38 inclusive, payable April 1, 1929 (4 per cent)	38,000 00
t registered Public Sewer bond, No. 1, payable June 1, 1918 (4 per cent)	50,000 00
I bond, State of Michigan, war loan of 1898, No. 1, payable May 1, 1908, or any time after May 1, 1903 (3½ per cent)	50,000 00
252 Wayne County bonds of \$1,000 each, Nos. 6 to 15 inclusive, 24, 25, 51 to 57 inclusive, 88 to 94 inclusive, 98, 99, 100, 151 to 160 inclusive, 311 to 400 inclusive, 457, 459, 460, 744, 745, 747, 750, 753, 756, 757, 758, 759, 760, 761, 773 to 780 inclusive, 783, 785, 786, 788, 790, 792, 794, 806, 818 to 830 inclusive, 853, 877, 911, 926, 927, 933 to 955 inclusive, 974, 975, 1051 to 1090 inclusive, 1171 to 1180 inclusive, payable May 1, 1910 (4 per cent)	252,000 00
145 Wayne County bonds of \$1,000 each, Nos. 148 to 162 inclusive, 218 to 317 inclusive and 407 to 446 inclusive, payable May 1, 1914 (3½ per	
cent)	145,000 00
000 each, Nos. 249, 250 and 251, payable Oct. 1, 1926 (4 per cent)	150,000 00
36 Water Works bonds of the village of River Rouge, Mich., of \$1,000 each, Nos. 1 to 36 inclusive, payable June 8, 1930 (4 per cent)	36,000 00
Street Paving bonds (4 per cent)	574,102 52
Total sinking fund	\$1,761,091 26

STREET PAVING BONDS.

These are special assessment bonds, secured by assessments on abutting property; the faith and credit of the City of Detroit are pledged for their payment, and there being no provision in the law to the contrary, they are considered as being covered by the 2 per cent debt limit, though previous to 1895 they were not so shown in the reports of this department.

Outstanding Street Paving bonds	\$	574,102	52
Cash in Street Paving Sinking and Interest fund.\$236,715 5	7		
Less one year's interest on bonds 22,964 I	0		
Cash in fund for redemption of bonds		213,751	47
Net street paving bonded debt	\$	360,351	05
RECAPITULATION.			
Outstanding city bonds	.\$5	5,324,000	00
Sinking fund	. 1	1,761,091	2 6
Net general debt	.\$	3,562,908	74
Net street paving debt	•	360,351	05
Total net debt, June 29, 1901	.\$	3,923,259	7 9
Total net debt, June 30, 1900		3,724,637	72
Increase in debt during year		198,622	07
Charter limit of bonded debt, 2 per cent of assessed valuation		4044050	•
(\$247,248,500)	•Ф	4,944,970	w

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It will be noted that the debt has increased \$198,622.07 during the year. Nearly \$100,000 of this amount represents the increase in the net paving debt, which is largely occasioned by the fact that many persons refrained from paying their paving assessments on account of the suit brought against the city by R. A. Parker, and which was decided in the city's favor a few weeks ago. During the year \$250,000 of Public School bonds were issued and the difference between this amount and the \$98,000 increase in net general debt represents approximately the earnings of, and credits to, the Sinking Fund during the year.

Within the past six years a number of radical and very beneficial changes have been made in the financial system of the city. The first of these was the law creating the Deficiency Fund, enacted by the legislature of 1899. The first year this law was in operation it became necessary to use of the liquor moneys \$22,518.07 to make up the difference between the appropriations due the several funds and departments in addition to the moneys received from back taxes. Last year no liquor money was required for this purpose, and after crediting every fund the full appropriation, a balance was carried over to the Deficiency Fund of \$31,332.22. Owing to the very large amount of money collected on the levy of 1900, and also to the the great increase in back taxes collected the balance carried over this year in the Deficiency Fund after crediting all the other funds the full appropriation, was \$172,983.89. It is very difficult to compute the amount of money that will be collected on the current and back tax levies. The sums received from these sources this year have been extraordinary and may or may not be continued. For this reason, I do not believe it wise, for the present at least, for the city to seek any legislation, utilizing a portion of this money in other directions. If the balance should in the future reach a sum out of proportion to the money which might be required, it would then be time enough to consider the advisability of diverting a portion of it to the Sinking Fund.

A number of important changes in our financial system were made by our last legislature, the first of which establishes a principle for which I



have contended during my administration, and which has been strongly approved by your honorable body and other city officials; that is, that for all bonds issued by the city, there shall be a certain percentage raised every year by taxation for the purpose of retiring the bonds to the end that the taxpayer of each year during the life of the bonds shall pay his proportionshare for the use of the improvement thereby obtained. The law provides that for all bonds issued after July 1, 1901, there shall be raised by taxation during their life, 75 per cent of their face value, it being estimated that the remaining 25 per cent will be derived from the earnings of the money raised as above provided. For a 30-year bond, which is the usual term for which our bonds are issued, the annual levy would be 21 per cent of the face value. The next important financial change was the provision in this same act of exempting all bonds issued by the city from city taxation. provision was not in the bill as originally drawn, but after consultation with a number of members of your honorable body and other city officials, it was thought wise to include it. The wisdom of this was demonstrated yesterday in a very practical manner. Proposals were invited for the purchase of \$155,000 of Public School bonds. The highest bid received from an outside concern, and which probably represented the approximate market value abroad, was \$165,140.00; a local concern, the Detroit Trust Co., offered for the bonds on account of the exempt provision, \$170,283, or a difference of \$5,143. Several other local institutions also offered much higher prices for the bonds than those from abroad. It is, of course, impossible to say how much the city will receive on this account in the future, but it undoubtedly will in the course of time aggregate a very large sum. In addition to the increased amount which the city hereby derives, the fact that our securities are eagerly sought after by our local investors greatly enhances the city's credit. I do not know of any city in the United States at the present time that can sell a bond on less than a 3 per cent basis, which was the price obtained for the issue above referred to.

In my annual message last year, I suggested that an amendment be secured to the charter, directing the Controller to submit in his annual report a classified statement of the receipts and disbursements in place of a "detailed schedule" of accounts audited as heretofore provided. This suggestion was also approved by your honorable body, and I am pleased to report that the amendment was secured without difficulty. It reduces by at least 75 per cent the size of the report, without in the slightest degree impairing its value, and at the same time saves the city at least \$1,000 a year for printing. I have continued in my present report the form of classification of receipts and disbursements inaugurated last year, in addition to the condensed statement of receipts and disbursements by funds. This is of special value in making compilations of financial statistics from year to year, and the general form has been very favorably commented upon both by our citizens and students of municipal economy.

Acting upon the belief that the Common Council and Board of Estimates were entitled to the fullest information that could be furnished them while in consideration of the budget, I changed the form, four or five years ago, of submitting the estimates, giving not only the estimates for the ensuing year, but also the estimates, appropriations and expenditures for the two years preceding. This led to the publication of the appropriation book, commonly known as the "Red Book," which I think has been of great value, not only to your honorable body, but to all the departments. There is no ordinance requiring the Controller to compile either the estimates or the appropriations in this form, and in order that these publications may become a fixture in our financial system, I would respectfully suggest that an ordinance be adopted requiring both the estimates and the appropriations to be submitted in either the present or a similar form.

Respectfully submitted,

F. A. BLADES, Controller.



PART I.

ANALYSIS

OF

RECEIPTS AND DISBURSEMENTS

1.	AGGREGATES,		- TABLE 1
2	RECEIPTS IN DETAIL, -	-	TABLES 2 to 17
3.	DISBURSEMENTS IN DETAIL.		TABLES 18 to 29

TABLE NO. 1. ANALYSIS OF RECEIPTS AND DISBURSEMENTS. AGGREGATES.

Cash in the Treasury July 1, 1900	\$1,565,885 13
RECEIPTS.	
General tax levies	5 09
Special assessmentsTable No. 3 337,91	5 43
Liquor licensesTable No. 4 273,88	9 33
All other licensesTable No. 5 16,52	0 34
Rents	2 91
Fincs	9 25
Franchises	4 50
Fees	2 06
Sales of labor and materialTable No. 10 96,47	7 18
Sales of bonds	8 90
Interest	1 44
Matured investmentsTable No. 13 235,66	1 72
Profits	0 00
Refunds	5 73
Judgments	2 26
Miscellaneous	4 83
Total receipts	 \$5,354,170 97
Total to be accounted for	\$6,920,006 09
•	, 40,320,000 03
DISBURSEMENTS.	
Maintenance—Salaries	
Maintenance—Supplies, general labor, etc. Table No. 19 1,360,31	
Improvements	
The public debt	
Interest	
Investments	
Special assessments (sundry contractors). Table No. 24 88,11	
	3 12
Refunds	
Appropriations paid sundry Commissions. Table No. 27 1,191,30	
Jury awards, opening streetsTable No. 28 49,00	
RedemptionsTable No. 29 82	8 78
	

Cash in the Treasury July 1, 1901.....

\$1,456,517 66

TABLE No. 2.

RECEIPTS CLASSIFIED.

GENERAL TAX LEVIES.

The total assessed valuation of all property in the City of Detroit subject to taxation in 1900, not including \$6,572,300 against the Detroit Citizens' and Fort Wayne & Belle Isle Railway Companies, which are not assessed for City taxes, was \$237,799,250, upon which the Common Council, by resolution adopted April 17, 1900, made a levy of \$3,662,877.88, an average of \$15.40325 per \$1,000.

COLLECTED BY THE RECEIVER OF TA	AXES.		
Total levy\$	3,662,877	88	
Deduct.			
Real estate taxes sold to city June, 1901\$31,180 50			
In hands of Receiver, uncollected, June 30, 1901 87,665 46			
	118,845	96	
Collected by the Receiver	3,544,031	92	
Add penalties imposed for delayed payments	39,465	97	
Total collected by Receiver, 1900 levy		_	\$3,583,497 89
LEVY OF 1899.			
Balance of charge to Receiver July 1, 1900\$	46,857	19	
Charged during year account errors in former credits	83	92	
Total charged	46,941	11	
Deduct.			
Erroneous personal assessments cancelled\$13,215 06			
Unpaid prsls. in hands of Receiver June 30, 1901. 26,584 75			
	39,799	81	
Collected by the Receiver\$	7,141	3 0	
Add penalties imposed for delayed payments	879	47	
		-	

Total collected by the Receiver, 1899 levy.....

\$ 8,020 77

LEVY OF 1898.

Balance of charge to Receiver July 1, 1900\$ Charged during year account errors in former credits	-			
Total charged\$	15,788	23		
Deduct.				
Deduct.				
Unpaid personals in hands of Receiver June 30, 1901\$	14,823	53		
Collected by the Receiver	964	70		
Add penalties imposed for delayed payments	162	38		
Total collected by the Receiver, 1898 levy		*	1,12	7 08
Total collected by the Receiver of Taxes account				
tax levies 1898, 1899 and 1900		\$	3,592,64	6 7 4
COLLECTED BY THE CITY TREASUR	ER.			
Uncollected real estate taxes, levies of 1865 to 1899, in				
hands of Treasurer July 1, 1900\$	366.674	85		
Taxes of 1900 sold to Treasurer, June, 1901\$31,180 50	•			
Penalties added by Receiver prior to sale 3,667 20				
\$	34,847	70		
	01,011			
Total charged to Treasurer\$		_		
Total charged to Treasurer\$ Deduct.		_		
Deduct.		_		
Deduct, Sales and assessments cancelled account er-		_		
Deduct. Sales and assessments cancelled account errors, etc		_		
Deduct. Sales and assessments cancelled account errors, etc		_		
Deduct. Sales and assessments cancelled account errors, etc		55		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182	31		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182	31		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182	31		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182	31 		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182 251,340	31 		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182 251,340 31,521	31 		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182 251,340 31,521	31 		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182 251,340 31,521	31 		
Deduct. Sales and assessments cancelled account errors, etc	401,522 150,182 251,340 31,521	31 		

RECAPITULATION.

Collected by the Receiver, levies 1898, 1899, 1900\$3,592,645 74	6
Collected by the Treasurer, levies 1843-1900 283,529 35	;
- 1	•
Total receipts from tax levies	\$3,876,175 09

The above sum of \$3,876,175.09 was distributed to the city funds as	follows:
Belle Isle Bridge Fund\$	7,747 56
Board of Education Fund	785,807 00
Board of Public Works General Fund	42,064 19
Deficiency Fund	355,884 13
Detroit City Sinking Fund	39,465 97
Eastern Market Fund	3,026 03
Fire Commission Fund	633,560 04
Fire Department Retired and Pension Fund	7,082 22
Garbage Fund	62,903 15
General Fund	243,667 11
General Road Fund	188,225 25
Interest Fund	140,913 62
Metropolitan Police Fund	463,753 20
Park and Boulevard Fund	167,934 96
Police Pension Fund	1,352 07
Public Building Fund	7,640 26
Public Library Fund	51,335 53
Public Lighting Fund	92,927 61
Public Sewer Fund	118,892 82
Recorder's Court Fund	11,713 73
Redemption Fund	658 77
Repaying fund	246,065 53
Road District No. 1 Fund	16,977 56
Road District No. 2 Fund	16,977 56
Road District No. 3 Fund	6,791 31
Road District No. 4 Fund	9,338 23
Road District No. 5 Fund	6,791 31
Road District No. 6 Fund	6,791 31
Road District No. 7 Fund	6,791 31
Road District No. 8 Fund	5,941 89
Road District No. 9 Fund	6,791 31
Road District No. 10 Fund	5,941 89

Road District No. 11 Fund	5,941 89
Road District No. 12 Fund	5,941 89
Road District No. 13 Fund	5,941 89
Road District No. 14 Fund	5,092 52
Road District No. 15 Fund	5,941 89
Road District No. 16 Fund	5,092 52
Road District No. 17 Fund	6,791 31
Superannuated Police Fund	1,073 08
Water Commission Fund	72,603 67
_	
Total	\$3,876,175 09

TABLE No. 3.

RECEIPTS CLASSIFIED.

SPECIAL ASSESSMENTS.

BY THE RECEIVER OF TAXES.

Balance uncollected July 1, 1900		.\$	240,024	36	
Charged to Receiver during year	• • • • • •		42 6,440	37	
Total charged	•••••	.\$	666,464	73	
Assessments rescinded account errors, etc\$ 50	,210 53	3			
Assessments sold to City Treasurer 15	,466 78	;			
In hands of Receiver, uncollected, July 1, 1901 329	,599 91	L			
		\$	395.277	19	
Collected during year on principal		\$	271,187	54	
Add penalties and interest imposed for delayed paymts			9,957	12	
Total collected during year	•••••		•	_	\$ 281,144 66
Divided as follows:					
Principal. Interest. To	otal.				
Paving streets\$174,230 97 \$ 8,950 42 \$183	,241 39)			
Paving alleys 8,274 31 11 48 8	,285 79)			
Sidewalks 1,060 73 18 19 1	,078 92	;			
Lateral sewers 48,134 19 386 15 48	,520 34				
Opening streets and alleys. 39,376 60 582 71 39	,95 9 3 1				
Repairing areas 50 74 8 17	58 91				

Total\$271,187 54 \$ 9,957 12 \$281,144 66

BY THE CITY TREASURER.

Balance uncollected July 1, 1900\$	194,229 88	
Charged to Treasurer during year:		
Principal		
Accrued interest to date of sales	17,323 56	
Total charged\$	211,553 44	
Deduct:		
Erroneous assessments cancelled	•	
sewer collections	1,094 68	
- •	210,458 76	
Uncollected July 1, 1901	165,065 54	
Collected during year on principal and accrued interest to date		
of sale	•	
Add interest charged by freasurer for delayed payments	11,011 00	
Total collected during year		56,770 77

Divided as follows:

I	Principal.	Interest	Total.
Paving streets	28,166 37	\$ 7,136 17	\$35,302 54
Paving alleys	1,057 40	147 79	1,205 19
Sidewalks	1,994 63	491 83	2.496 46
Lateral sewers	9,015 76	2,670 58	11,686 34
Opening streets and alleys.	5,159 06	931 18	6,090 24
-			
Total	45,393 22	\$11,377 55	\$56,770 77

ANNUAL REPORT OF THE

RECAPITULATION.

Collected by the Receiver of Taxes	\$ 281,144 66	
Collected by the City Treasurer	56,770 77	
Total collections	\$ 337,915 42	ì

Divided as follows:

P	rincipal.	Interest.	Total.
Paving streets\$	202,457 34	\$16,086 59	\$218,543 98
Paving alleys	9,331 71	159 27	9,490 98
Sidewalks	3,055 36	510 02	8,565 38
Lateral sewers	57,149 9 5	3,056 73	60,206 68
Opening streets and alleys.	44,535 66	1,513 89	46,049 55
Repairing areas	50 74	8 17	58 91
Total\$	316,580 76	\$21,384 67	\$837,915 43

The above sum of \$337,915 43 was distributed to the city funds as follows:

Contractors' interest fund	75	48
General fund	5,678	15
General Road fund	6,987	00
Liquor License fund	15,466	17
Park and Boulevard fund	374	24
Public Sewer fund	4,196	07
Street Opening fund	2,822	26
Street Paving Sinking and Interest fund	186,777	65
Water Pipes and Mains refund	1	31
Sundry contractors	88,007	97
Sundry street opening awards	27,534	13

- **\$337,**915 **43**

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TABLE No. 4.

RECEIPTS CLASSIFIED.

LIQUOR LICENSES.

This money was placed to the credit of the Liquor License fund.

TABLE No. 5. RECEIPTS CLASSIFIED.

ALL OTHER LICENSES.

30	auctioneers\$	216 85
180	bakers	90 00
12	ball alleys	132 00
1	baseball	2 5 00
45	billiard tables	22 0 00
19	concerts and shows	133 00
835	dirt wagons	414 50
2761	dogs	2,794 65
8	ferries	1,360 00
159	hacks and express	748 90
34	hack drivers	3 0 15
21	intelligence offices	456 45
14	meat peddlers	526 67
481	meat shops	23 5 10
581	milk depots	560 05
2 030	newsboys	203 00
2	night lunch wagons	100 00
36	pawnbrokers	1,750 02
845	peddlers	3,219 40
10	porters and runners	50 00
207	restaurants	197 35
54	second-hand stores	108 00
6	theatres	466 70
10	ticket brokers	92 50
482	trucks and drays	1,347 05
1043	engineers and firemen (collected by Boiler Inspector)	1,043 00

The above sum of \$16,520 34 was placed to the credit of the General Fund.

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TABLE No. 6.

RECEIPTS CLASSIFIED.

RENTS.

County offices in the City Hall\$	15,600 00	
Grosse Pointe Hospital grounds	91 68	
Privileges, Belle Isle	4,461 65	
Boat Clubs, Belle Isle	2 00	
Poles, tracks, conduits, etc., Public Lighting Commission	2,667 58	
Total	\$	22,822 91
The above sum of \$22,822 91 was placed to the credit of the following funds:		
General fund	15,691 68	
Public Lighting fund	2,667 58	
Park and Boulevard fund	4,463 65	
Total	\$	22,822 91

TABLE No. 7.

RECEIPTS CLASSIFIED.

FINES.

Redemption of 67 impounded horses and cows\$	78 75	
Redemption of 72 impounded dogs	74 00	
Fines and costs collected by Clerk of Police Court, violation City	•	
ordinances	6,570 00	
Fines imposed account delay in paving contracts	596 00	
Encroachments on Boulevard	2 00	
Fines and costs collected by Clerk of Recorder's Court	749 50	
Fines imposed on members of police force by the Metropolitan		
Police Commission	396 00	
Total	\$	8,459 25
The above sum of \$8,459 25 was placed to the credit of the following funds:		
General fund	6,570 00	

City Pounds, Eastern District fund	36	75
City Pounds, Western District fund	37	00
Dog fund	74	00
General Road fund	595	00
Park and Boulevard fund	2	00
Recorder's Court fund	749	50
Superannuated Police fund	395	00

Total\$

TABLE No. 8.

RECEIPTS CLASSIFIED.

FRANCHISES.

Detroit Citizens' Street Railway Co., 2 per cent gross receipts,	
January 1 to December 31, 1900\$	19,738 36
Detroit Citizens' Street Railway Co., 2 per cent gross receipts,	
Ft. Wayne & Belle Isle Ry. Co., January 1 to December 31, 1900.	2,666 12
Detroit Citizens' Street Railway Co., 1 per cent of gross receipts	
Grand River line, January 1 to December 31, 1900	2,850 58
Fort Street Union Depot Co., 2½ per cent gross earnings, January	
1 to December 31 1899	2,869 44
-	
Total franchises	\$ 28,124 50

The above sum of \$33,124 50 was placed to the credit of the General Fund.

TABLE No. 9.

RECEIPTS CLASSIFIED.

FEES.

Detroit Gas Co., inspection of gas meters\$	1,200 00	
Sundry individuals, testing gas meters	32 00	
Western Hay Scales, certifying weights	1,014 10	
Eastern Hay Scales, certifying weights	1,980 50	
Western Market, wagons on market	2,183 00	
Eastern Market, wagons and cattle	6,276 05	
Inspection steam boilers	3,348 00	
Issuing tax leases	6 50	
Filing chattel mortgages, bills of sale, etc., by City Clerk	667 50	
Permits for repairing pavements	3,375 58	
Permits for buildings	202 90	
Permits for house-moving	486 46	
Additional on permits	85 04	
Permits, Parks and Boulevards	36 25	
Permits to land at Belle Isle	25 0 00	
Inspection certificates, Public Lighting Commission	2,782 55	
Permits for sewer connections	2,985 63	
· -	 ·	
Total		.\$ 26,912

The above sum of \$26,912.06 was placed to the credit of the following City funds, viz:

Board of Public Works General fund\$	1,232 00
General fund	15,475 6 5
General Road fund	4,149 98
Park and Boulevard fund	311 50
Public Lighting fund	2,782 56
Public Sewer fund	2,960 38

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TABLE No. 10.

RECEIPTS CLASSIFIED.

SALES (LABOR AND MATERIAL.)

Sale of impounded animals	371	30
Sale of Fire and Police Department horses	3,974	5
Sale of horses and other animals, Park and Boulevard Department	774	0
Sale of City charters and ordinances	22	71
Sale of houses, fences, etc., in line of streets opened	730	U
Sale of unclaimed property, Police Department	139	2
Sale of old election booths	280	00
Sale of provisions, Poor Commission	?5	8
Sale of curb, cobble, stone, sawdust, cement sacks and other mis-		
cellaneous old material	7,285	08
Sale of old hose, carts, wagons, harness, furniture and other mis-		
cellaneous apparatus	1.745	38
Special service by Fire Department	302	50
Special service by Police Department	275	00
Patrol service for sundry banks	4,781	50
Care private signal boxes, Police Department	223	43
Building and repairing sidewalks	11,905	4
Building, repairing and cleaning sewers	188	96
Rolling streets and alleys	3,710	2
Repairing and inspecting pavements	40,252	70
Sewer connections	963	02
Sewer inspection	207	80
Paving Seward avenue across Beck street, vacated	202	24
From Detroit Railway account waiting room Palmer Park	600	00
Miscellaneous foreign work by Board of Public Works	472	99
Teaming, use of roller and other foreign work, Park Commission	139	29
Lighting public buildings, etc	1.843	28

•			
Foreign work by Public Lighting Commission	2,090	57	
Foreign work by Fire Department	92	00	
Foreign work by Police Department	40	65	
Meals furnished county prisoners and poor charges	400	96	
Park wagons and bath house service, Belle Isle	12,236	34	
To reimburse for cost printing side-track ordinance	140	33	
		_	
Total		\$	96.

The above sum of \$96,477 18 was placed to the credit of the following City funds:

Board of Public Works General fund\$	1	00
City Pounds, Eastern District fund	:	35
City Pounds, Western District fund	5 :	25
Dog Pound fund	865	50
Fire Commission fund	8,166	00
General fund	163	08
General Road fund	59,547	11
Metropolitan Police fund	7,393	50
Park and Boulevard fund	15,061	57
Poor Commission fund	436	81
Public Building fund	5	30
Public Lighting fund	4,445	48
Public Sewer fund	4,561	45
Repaying fund	1.20	53
Street Opening fund	790	00
Superannuated Police fund	414	25

TABLE NO. 11.
RECEIPTS CLASSIFTED.

SALE OF BONDS.

Principal.	8.08½ \$250,000.00			
Basis or net Rate of Interest paid by City.		90 00 87 00 17 90	8 8	& & & &
Preminms.	\$20,187.00	20,187 00 71 90	\$270,26	20,258
Accrued Interest	\$71.90			
Date of Delivery.	July, 5, 1900	00 000,0353; 00 781,06 00 17	unds, viz:	
Mainre.	July 2, 1990	1 : :	ing City f	
Date.	8½ July 2, 1900 fuly 2, 1990 July 5, 1900 \$71.90		the follow	
Rate.	81%		ö	
Name of Bonds.	Public School.	188	placed to the credit of the following City funds.	
Date Res. of Bd. of Es. suth.	A pr 14, 1900		was placed t	
Date Res. of C. C. anth.	Apr. 5, 1900		770,258 90 wa	nd
Name of Purchaser.	May 23, 1900 W. J. Hayes Apr. 5, 1900 Apr 14, 1900 Public School.	Principal Premium Accrued interest	Total	Detroit City Sinking fund 20,258 90
Date Bids Received.	May 28,1900	Principal Premium	Total The ab	Detroit Ci

TABLE No. 12.

RECEIPTS CLASSIFIED.

INTEREST.

The City has contracts with the Commercial National Bank, Detroit National Bank, American Exchange National Bank and Peninsular Savings Bank for the care of the General Funds of the City, one-fourth to each bank, and for which said banks agree to pay 2½ per cent interest on average daily balances. The Sinking Fund is deposited in the Dime Savings Bank under a similar contract, except that the rate of interest paid is 255-100 per cent. Each bank furnishes a bond for \$1,000,000 for the safe-keeping of the City's money. The Street Opening Award Fund is not a part of the regular City Funds, but interest is paid on same at the regular City rate. Interest is credited by all banks quarterly.

Interest received on average daily balances City General Funds:

Jul	у,	Oct.,	Jan.,	April,	
190	0.	1900.	1901.	1901.	Total.
Commercial National Bank\$2,34	1 73	\$ 3,114 58	\$ 3,100 37	\$ 2,252 76	\$10,809 44
Detroit National Bank 2,18	1 29	3,335 36	3,091 31	2,205 49	10,813 45
American Exchange Nat. Bank 2,2	0 61	3,351 91	3,078 08	2,197 10	10,827 70
Peninsular Savings Bank 2,13	6 98	3,345 41	3,078 08	2,196 57	10,757 04
\$8,86	0 61	\$13,147 26	\$12,347 84	\$ 8,851 92	\$43,207 63
Peninsular Savings Bank,					
(Street Opening Award Fund)	3 83	49 58	32 13	39 00	194 54
Totals\$8,93	4 44	\$13,196 84	\$12,379 97	\$ 8,890 92	\$43,402 17

Earnings of the Detroit City Sinking Fund:

Interest on daily balances, Dime Savings Bank\$ Interest on securities held	-		
Total	\$	62,199 27	
Total receipts, interest		\$	105,601 44
The above sum of \$105,601 44 was placed to the credit of t lowing City Funds, viz:	he fol-		
Interest on deposits (transferred to Detroit City S	inking		
Fund at close of year)	\$	43,402 17	
Detroit City Sinking Fund	•••••	62,199 27	
Total		\$	105,601 44

TABLE No. 13.

RECEIPTS CLASSIFIED.

INVESTMENTS MATURED.

Securities owned by the Sinking Fund Commission and matured during the year:

Street p	paving	bonds	\$	235,661	72
Street]	paving	bonds	····•	285,661	72

The above sum of \$235,661 72 was placed to the credit of the Detroit City Sinking Fund.

TABLE No. 14.

RECEIPTS CLASSIFIED.

PROFITS.

From the Superintendent of the House of Correction, being profits	
from the manufacture at the House of Correction of furniture,	
brushes, buttons, etc\$	85,000 00

The above sum of \$35,000 was placed to the credit of the House of Correction account.

TABLE No. 15.

RECEIPTS CLASSIFIED.

REFUNDS.

Returned to the Treasury account salary uncalled for, errors in		
pay rolls and vouchers overpaid\$	209 25	
Returned by Secretaries of Police and Fire Departments account		
time unserved	201 57	
Rebate U. S. Supreme Court fees, case R. A. Parker vs. City	79 10	
Refunded to Police Department for board, etc	20 11	
Refunded to Poor Commission by party aided	8 05	
Refund by Water Commission of collections of water pipes and		
mains assessments, account unconstitutionality of law	13,992 65	
Total	2	14.505 73

The above sum of \$14,505 73 was placed to the credit of the following City funds:

Contingent fund	88 53
Fire Commission fund	128 87
General fund	1 50
General Road fund	80 77
Metropolitan Police fund	95 31
Park and Boulevard fund	37 65
Poor Commission fund	
Public Sewer fund	

Recorder's Court fund	10 00	
Road District fund, No. 1	75	
Road District fund, No. 2	4 51	
Road District fund, No. 4	11 44	
Road District fund, No. 6	7 00	
Road District fund, No. 9	75	
Road District fund, No. 10	75	
Road District fund, No. 12	17 25	
Road District fund, No. 15	1 50	
Road District fund, No. 17	3 56	
Water Pipes and Mains refund	13,992 65	
Total	\$	14.505 73

TABLE No. 16.

RECEIPTS CLASSIFIED.

JUDGMENTS.

Total	\$	5,342 26
-		
Taxed costs	192 26	
Judgment Estate John Fallon, account stall rent Central Market.	150 00	
count defalcation\$	5,000 00	
Settlement judgment vs. bondsmen ex-City Treasurer Tuite, ac-		

The above sum of $$5,342\ 26$ was placed to the credit of the Contingent Fund.

TABLE No. 17.

RECEIPTS CLASSIFIED.

MISCELLANEOUS.

From the State of Michigan for care of Soldiers' monument......\$ 100 00

Cash taken from seized slot machines	811 50	
Cash in pocketbooks found	63 33	
Donation from L. F. Weiss, share in Dominion Bank, Napanee, Ont., reward	30 00	
· -		
Total	\$	504 83
Marine Province		
The above sum of \$504.83 was placed to the credit of the	following	
City funds, viz:	_	
Park and Boulevard fund\$	100 00	
Superannuated Police fund	404 83	
-		
Total	\$	504 83

TABLE No. 18.

DISBURSEMENTS CLASSIFIED.

SALARIES.

Including all extra pay rolls and compensation.

Common Council\$	40,997	67
Mayor's office	5,649	90
Controller's office	11,856	31
City Clerk's office	10,899	84
City Treasurer's office	15,790	00
Receiver of Taxes' office	27,449	24
Assessors' office	32,777	19
Law Department	17,952	36
Chief Accountant	2,250	00
Secretary and Messenger, Common Council Committees	1,304	10
Board of Public Works office	23,860	19
City Engineer's office	19,476	79
Store and Record rooms	2,063	63
Building Inspectors' office	3,600	00
Boiler Inspectors' office	4,634	16
City Physicians	6,000	00
Police Court	11,400	00
Market Clerks	2,052	0 0
Weighmasters and Poundmasters	3.600	v0
Janitors, engineers and elevator conductors, City Hall	13,128	48
Janitors, engineers and elevator conductors, M. C. Bldg	6,275	58
Board of Estimates	3,696	00
Sidewalk Inspectors	7,836	00
General Superintendents.B. P. Works	4.212	00

Description Clerk	1,058	16
Police Department	507,349	4 5
Fire Department	443,865	58
Administration and Engineering Depts., Park and Boul. Com	7,978	21
Poor Commission	7,253	24
Health Department	25,602	87
Public Lighting Department	58,063	53
Recorder's Court	14,199	60
Pensions to disabled and retired firemen and policemen and widows	13,656	51
Engineers and caretakers, Belle Isle bridge	6,360	00
Drivers, dog wagons	1,200	00
Art Museum	4,898	72
		_
Total		\$1,870,847 81

TABLE No. 19.

DISBURSEMENTS CLASSIFIED.

MAINTENANCE.

GENERAL LABOR, SUPPLIES AND MISCELLANEOUS,

Supplies and repairs for City offices, public buildings, markets and		
pounds\$	60,985	30
Labor and material repairing pavements, sidewalks, docks, foun-		
tains, etc.	255,193	62
Repaving streets	348,799	30
Cleaning streets	161,440	58
Labor and material building, repairing and cleaning sewers	36,847	89
Repairs and supplies, Belle Isle bridge	1,025	43
Elections	40,751	33
Rents	2,011	00
Expense Aldermanic investigation, trips, conventions, etc	613	11
The Art Museum	7,101	28
Fire Department	112,701	23
Health Department	10,386	50
Parks and Boulevard	100,734	74
Police Department	34,639	76
Poor Commission	47,334	57
Legal disbursements, including settlement of damage cases	21,633	23
Water for charitable institutions	2,000	00
Removal of garbage	6 5,000	00
Public Lighting Department, including foreign work and inspection	50,180	13
Indemnity bonds	877	00

Fotal\$1,360,316 11



TABLE No. 20.

DISBURSEMENTS CLASSIFIED.

IMPROVEMENTS.

Opening streets and alleys\$	16,417 2
Construction of sewers	102,228 1
Public Lighting construction	25,147 1
Police Stations	28,157 6
New pavements (intersections, etc.)	36,002 4
G. A. R. Memorial Building	11,093 0
Fire Department	137,193 6
Hay shed, Eastern Market	1,869 0
Belle Isle bridge approach	205 0
Grade separation expenses	499 5
Foundation for and placing Viscaya cannon	1,264 4
Aquarium and Horticultural building	1,439 2
Park and Boulevard Department	82,206 2

TABLE No. 21.

DISBURSEMENTS CLASSIFIED.

THE PUBLIC DEBT.

TABLE No. 22.

DISBURSEMENTS CLASSIFIED.

INTEREST.

General City bond coupons\$	205,517 50
Street paving bond coupons	21,842 86
Interest on paving contract, account delayed payment	71 82
-	

TABLE No. 23.

DISBURSEMENTS CLASSIFIED.

INVESTMENTS.

Detroit Water, Wayne County and Detroit Street Paving bonds
purchased by the Sinking Fund Commission as investments.....\$ 460.523 54

TABLE No. 24.

DISBURSEMENTS CLASSIFIED.

SPECIAL ASSESSMENTS PAID TO CONTRACTORS.

Paving streets\$	26, 19 6	84	
Paving alleys	8,896	04	
Lateral sewers	52,497	20	
Sidewalks	468	34	
Repairing areas	52	81	
-		-	
Total		\$	88,110 73

TABLE No. 25.

DISBURSEMENTS CLASSIFIED.

GREETINGS, ENTERTAINMENT AND CELEBRATIONS.

Entertaining Admiral Dewey\$	382 72
Entertaining Cleveland Aldermen	105 57
Entertaining State Fair Committee	92 10
Entertaining Congressional Committee	230 85
Erecting arch, Odd Fellows' convention (1899)	493 00
Decorations and illuminations, Knights of Pythias convention	2,408 60
Electrical decoration of the City Hall, the "Welcome" sign	1, 424 3 8
Illuminations, beginning of the Twentieth century	407 84
Celebration of the Bicentenary of the founding of Detroit	3,438 06
Medals presented to veterans Spanish-American war	500 00

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TABLE No. 26.

DISBURSEMENTS CLASSIFIED.

REFUNDS.

General City taxes\$	6,714	96	
Paving and sidewalk assessments	986	00	
Lateral sewer assessments	322	34	
Street opening assessments	814	65	
Water pipes and mains assessments	13,993	96	
Stall rents, Central Market	8,151	00	
Over credit, interest on daily bank balance	141	28	
Deposits refunded	61	43	
-		_	
Total		\$	26,135 57

TABLE No. 27,

DISBURSEMENTS CLASSIFIED.

APPROPRIATIONS PAID TO COMMISSIONS WHOSE TREASURERS ARE OTHER THAN THE CITY TREASURER.

Board of Education\$1,	063,270 61
Public Library	53,034 20
Water Commission	75,000 00

TABLE No. 25.

DISBURSEMENTS CLASSIFIED.

STREET AND ALLEY OPENING AWARDS.

TABLE No. 29.

DISBURSEMENTS CLASSIFIED.

REDEMPTIONS.

PART II.

THE FUNDS

1.	TRIAL BALA	ANCE,	-	-	TABLE 30
2.	AGGREGATI	E RECEIPTS	, DISBU	JRSEMI	ENTS
	AND BALA	INCES,	-		TABLE 31
3.	DETAILED	RECEIPTS	AND	DISBU	RSE-
	MENTS,	-	-	TAI	3LES 32 to 110

TRIAL

DR.

City Bids. Receiver of Taxes, Special Assesses City Treasurer, Special Assessme Receiver of Taxes, General Tax I Public Sewer Loan Public Improvement Loan Public School Loan Public Building Loan Boulevard Improvement Loan Park Improvement Loan Park and Boulevard Loan Street Paving Loan Strong Box Account Receiver of Taxes and City Tre Account	ment Rolls nt City Bids evy 1898 evy 1899 evy 1900 casurer's Chang
City Treasurer	
Suspense Account	
/	/
./	

TABLE No. 31.

RECEIPTS AND DISBURSEMENTS BY FUNDS.

	See	Cash on							Cash on
Name of	Table	hand July			m 4.3		Disburs	_	hand July
Fund.	No.	1, 1900.	Receipts	•	Total.		ments.		1, 1901.
Alley Paving	32	3	\$ 8,894	51	\$ 8,894	51	\$ 8,894	51	\$
Art Museum	33	• • • • • • • • • • • • • • • • • • • •	12,000	00	12,000	00	12,000	00	•••••
Asphalt Plan	t 34		9,804	82	9,804	8 2	75	00	9,729 82
Belle I. Bridg	e 36	5,245 14	8,000	00	13,245	14	7,985	43	5,259 71
Board of Ed			1,063,270	61	1,063,270	61	1,063,270	61	
Board of Pul	blic								
W'ks Gener	al 37	854 47	44,687	00	45,541	47	44,021	95	1,519 52
City Pounds, East. Dist.			37	10	37	10	37	10	
City Pounds,									
West. Dist.	39	•••••	42	25	42	25	42	25	•••••
Contingent	40	40,439 17	110,665	33	151,104	E0	51,625	92	99,478 58
Contractors'									
terest	41	•••••	75	48	75	48	75	48	••••••
Deficiency	42	31,333 22	355,884	13	387,217	3 5	214,233	46	172,983 89
Detroit City	40	400 505 40	100.010		000 500	••	100 500		0 40 000 T4
Sinking		408,735 48	400,846		809,582		460,593		348,988 74
Dog Pound	44	•••••	2,934	22	2,934	22	2,934	2 2	•••••
Eastern Mar	ket. 45	36 76	3,129	32	3,165	08	2,524	23	640 85
Fire Commis	'n 46	52,056 94	657,855	47	70 9,91 2	41	693,760	56	16,151 85
Fire Dept. R	e-								
tired & Pen	s'n. 47	1,223 45	7,315	00	8,538	45	7,915	10	623 35
G. A. R. Bldg	z 48	7,431 2 5	2,804	78	10,236	03	10,236	03	
Garbage	49	••••••	65,000	00	65,000	00	65,000	00	•••••
General	50	40,319 88	339,218	14	379,533	02	320,702	47	58,830 55
General Road	51	4,772 25	8 34, 2 28	05	339,000	3 0	317,354	82	21,645 48

	See	Cash on			5 .	Cash on
Name of Fund.	Table No.	hand July 1, 1900.	Receipts.	Total.	Disburse- ments.	hand July 1, 1901.
House of Cor		35,082 00	58,300 00			6 78
Interest	53	52,753 74	153,702 00	-	-	936 24
Int. on Depos	sits. 54		43,207 63	-	-	
Lateral Sewe	r 55		52,426 33	52,426	32 52,426 32	
Lateral Sewe		2.863 82		2,866		2,863 82
Liquor Licen	se., 57	253,455 54	289.355 50	542,811	04 274,973 19	267.887 85
Metrop'n Pol	ice. 58	24,414 13	562,338 81	586,752	94 569,413 91	17,839 03
Opening Brown			1,674 40	1,674	40 1,674 40	
Opening East ern Place			2,742 00	2,742	00 2,742 00	••••••
Opening Fif- teenth stree		•••••	2,3 52 6 4	2,352	64 2,852 64	
Opening Moo:	62		2,271 00	2,271	00 2,271 00	••••••
Opening Orles	63		11,608 00	11,608	00 11,603 00	•••••
Opening Scov Place Opening Stan	64	•••••	4,110 00	4,110	00 4,110 00	•••••
avenue	65		3,682 00	3,682	00 8,662 00	
street	66		17,803 49	17,803	17,803 49	•••••
sixth street	•	•••••	3,027 26	3,027	25 8,027 25	
Park & Boul'	đ 68	4,682 63	194,702 61	199,885	24 190,207 37	9,177 87
Park Improve		149,567 15	•••••	149,567	15 1,439 22	148,127 93
Paving street	s 70		26,196 34	26,196	34 26,196 34	
Police Pension	n 71	175 06	1,400 00	1,575	06 1,479 17	95 89
Poor Commis	'n 72	175 61	55,939 86	56,115	47 54,587 81	1,527 66
Printing and stationery.	73		28,600 46	28,600	46 28,600 46	•••••
Public buildir	ıg 74	9 37	8,405 30	8,414	67 7,845 77	568 90
Public enter-	n -	00.55	10.051.04	40.000	07 7 000 0 0	5.069 87
tainment		22 06	12,951 01	•		399 36
Public Health Public Librar		8,611 17	27,777 56	36,388 ° 53,034 °		•
Public Lightin		KA 77A 7E	53,034 20 105,895 61			27,279 61
Public Sewer.	-	54,774 76 1.565 47	144,442 79	•		6,609 85
- abite bewer.	13	1,000 1/	172,724 (3	170,000	TOO 1000 IT	0,000 00

See	Cash on				Cash on
Name of Table	-			Disburse-	hand July
Fund. No.	1, 1900.	Receipts.	Total.	ments. 14,273 99	1, 1901. 32 85
Recorder's Court 80	947 34	18,359 50	14,306 84	828 78	2,015 38
Redemption 81	2,185 39	658 77	2,844 16	49 74	
Repairing areas. 82		49 74	49 74		•••••
Repaying 83	65,261 43	291,005 53	356,256 96	356,256 96	
Reservoir 84	85 01		85 01		85 01
Road Dist. No 1. 85	6 11	26,232 95	26,239 06	26,239 06	•••••
Road Dist. No 2. 88	14 61	28,582 13	28,596 74	28,596 74	•••••
Road Dist. No 8. 87	596 50	11,000 00	11,595 50	11,593 50	•••••
Road Dist. No 4. 88	158 81	17,598 45	17,757 28	17,757 26	•••••
Road Dist. No 5. 89	184 44	9,500 00	9,634 44	9,634 44	•••••
Road Dist. No 6. 90	387 08	10,507 00	10,894 08	10,894 08	•••••
Road Dist. No 7. 91	8 45	9,054 20	9,057 65	9,067 65	•••••
Road Dist. No 8. 92	851 44	8,000 00	8, 851 44	8,851 44	••••••
Road Dist. No 9. 98	154 63	9,000 75	9,155 37	9,156 87	
Road Dist No 10. 94	87 97	8,000 75	8,088 72	8,088 72	•••••
Road Dist No 11. 95	314 53	8,000 00	8,314 53	8,314 53	
Road Dist No 12. 96	409 40	8,017 25	8,426 65	8,426 66	
Road Dist No 13. 97	68 81	8,000 00	8,068 81	8,068 81	
Road Dist No 14. 98	1,425 95	7,000 00	8,426 96	8,425 96	
Road Dist No 15. 99	338 49	8,001 50	8,339 99	8,339 99	
Road Dist No 16.100	1,201 73	7,000 00	8,201 73	8,201 73	
Road Dist No 17.101	844 08	9,003.56	9,347 64	9,347 64	
Sidewalk102		468 34	468 34	468 34	
Street and Alley					
Op'g L. Tndr103	679 9 5		679 95	•••••	679 96
Street Opening104	4,610 25	12,787 98	17,398 18	16,517 22	880 96
Street Paving				•	
Sinking & Int105	307,469 78	186,777 65	494,247 43	257,531 86	23 6.715 57
Superannuated					
Police106	8,254 86	2,314 08	5,568 94	4,262 24	1,306 70
Water Comm'n108 Water Pipes and	••••••	75,000 00	75,000 00	75,000 00	•••••
Mains Refund109		13,993 96	13,993 96	13.993 96	
Western Mkt110	3,653 41		3,653 41	3,648 28	5 13
	\$1,574,733 96	\$6,083,543 83	\$7,658,277 79	\$6,192,861 29	\$1,465,416 50
•Less transfers		729,372 86	729,372 86	729,372 86	
	\$1,574,783 96	\$5,354,170 97	\$6,928,904 93	\$5,463,488 43	\$1,465,416 50
Less Suspense				,,	1 -,,
Acct. overdr'n.107	8,898 84		8,898 84	•••••	8, 89 8 84
Net cash in the Treasury and					
Receipts and		A- A- (4-4	** ***	Am 186 155 15	
Disbursements	\$1,565,835 12	\$5,3 54,170 97	\$6,920,006 0 9	\$5,463,488 43	\$1,456,517 66



*The transfers were as follows:

From City Pounds E. D. Fund to General Fund		•	81 54
From City Pounds W. D. Fund to General Fund			42 25
From Contingent Fund to Public Health Fund	1,500 00)	1,500 00
From Deficiency Fund:			
To Board of Public Works General Fund	1,389 81		
To Belle Isle Bridge Fund	252 44	Į.	
To Board of Education Fund	27,463 61		
To Eastern Market Fund	103 29)	
To Fire Commission Fund	21,000 56	}	
To Fire Department Retired and Pension Fund	232 78	}	
To Garbage Fund	2,096 85	,	
To General Fund	7,020 84		
To General Road Fund	31.578 75		
To Interest Fund	12,788 38		
To Metropolitan Police Fund	15,596 80		
To Park and Boulevard Fund	5,567 04		
To Police Pension Fund	47 93		
To Public Building Fund	259 74		
To Public Library Fund	1,698 67		
To Public Lighting Fund	3,072 39		
To Public Sewer Fund	13,812 18		
To Recorder's Court Fund	886 2 7		
To Repaving Fund	43,819 47		
To Road District No. 1 Fund	3,022 44		
To Road District No. 2 Fund	3,022 44		
To Road District No. 3 Fund	1,208 69		
To Raod District No. 4 Fund	1,661 77		
To Road District No. 5 Fund	1,208 69		
To Road District No. 6 Fund	1,208 69		
To Road District No. 7 Fund	1,208 69		
To Road District No. 8 Fund	1,058 11		
To Road District No. 9 Fund	1,208 69		
To Road District No. 10 Fund	1,058 11		
To Road District No. 11 Fund	1,058 11		
fo Road District No. 12 Fund	1,058 11		
To Road District No. 13 Fund	1,058 11		
To Road District No. 14 Fund	907 48		
To Road District No. 15 Fund	1,058 11		

CITY CONTROLLER.

To Road District No. 16 Fund	907	48	
To Road District No. 17 Fund	1,208	69	
To Superannuated Police Fund	26	92	
To Water Commission Fund	2,396	33	
		_	214,283 46
From General Fund			
To Park and Boulevard Fund\$	60 0	00	
To Printing and Stationery Fund	28,600	46	
To Dog Pound Fund	2,494	72	
To Art Museum account	12,000	00	
-			43,695 18
From General Road Fund:			
To Repaying Fund	1,000	00	
To Asphalt Plant Fund			
To Road District No. 1 Fund	282	20	
To Road District No. 2 Fund	577	62	
To Road District No. 4 Fund	587	01	
			12,201 65
From House of Correction Fund:			
To Public Building Fund\$	500	00	
To Road District No. 1 Fund		00	
To Road District No. 2 Fund	8,000	00	
To Road District No. 3 Fund	3,000	90	
To Road District No. 4 Fund	6,000	00	
To Road District No. 5 Fund	1,500	00	
To Road District No. 6 Fund	2,500	00	
To Road District No. 7 Fund	1,000	00	
To Road District No. 8 Fund	1,000	00	
To Road District No. 9 Fund	1,000	00	
To Road District No. 10 Fund	1,000	00	
To Road District No. 11 Fund	1,000	00	
To Road District No. 13 Fund	1,000	00	
To Road District No. 18 Fund	1,000	00	
To Road District No. 14 Fund	1,000	00	
To Road District No. 15 Fund	1,000	00	
To Road District No. 16 Fund	1,000	00	
To Road District No. 17 Fund	1,000	00	
To Public Entertianment Fund	12,951	01	ė

To General Fund	281	50	
To G. A. R. Building Fund	2,804	78	
To General Road Fund	20,405	75	
To Park and Boulevard Fund	250	00	
To Contingent Fund	2,502	00	
To Street Opening Fund	9,175	67	
To Public Health Fund	6,554	56	
_		- 98,375 27	,
From Interest on Deposits account to Detroit City Sink-			
ing Fund	43,066	40 \$ 43,066 40)
From Liquor License Fund:			
To Metropolitan Police Fund	75,500	00	
To Poor Commission Fund	55,500	00	
To Public Health Fund	19,723	00	
To Contingent Fund	102,732	54	
To Opening Orleans St. Fund	5,095	27	
To Opening Twenty-sixth St. Fund	1,033	17	
To Opening Brown Place Fund	804	40	
To Opening Moore Place Fund	983	10	
To Opening Eastern Place Fund	1,884	60	
To Opening Scovel Place Fund	1,760	00	
To Opening Theodore St. Fund	7,275	49	
To Opening Fifteenth St. Fund	785	29	
To Opening Stanley Ave. Fund	2,446	83 [°] 	•
From Opening Moore Place Fund to Opening Eastern		. •	
Place Fund	214	00 214 00)
From Public Entertainment Fund to House of Correction			
Account	1,500		
From Repaying Fund to General Road Fund	7,457	66 7,457 66	i
From Road District No. 1 Fund to House of Correction Account	8,200	00 8,200 00)
From Road District No. 2 Fund to House of Correction Account	5,000	00 5,000 00)
From Road District No. 3 Fund:			
To House of Correction Account	2,000	00	
To General Road Fund	471	42	
Them Doed District No. 4 Three 4 to Transport		2,471 42	3
From Road District No. 4 Fund to House of Correction Account	4,000	00 4,000 00)

From Road District No. 5 Fund:		
To House of Correction Account	1,600 00	
To General Road Fund	459 32	2,059 82
From Road District No. 6 Fund:		
To House of Correction Account	2,000 00	
To General Road Fund	262 74	2,252 74
From Road District No. 7 Fund:		
To House of Correction Account	1,500 00	
To General Road Fund	900 77	•
From Road District No. 8 Fund:		- 2,400 77
To House of Correction Account	•	
To General Road Fund	877 29	1,877 29
From Road District No. 9 Fund:		,
To Road District Fund No. 7	54 20	
To General Road Fund	1,202 81	1.257 01
From Road District No. 10 Fund to General Road Fund	760 84	•
From Road District No. 11 Fund:		
To House of Correction Account	1,000 00	
To General Road Fund	613 40	
-		1,613 40
From Road District No. 12 Fund to General Road Fund	1,587 67	•
From Road District No. 13 Fund to General Road Fund	1,848 78	
From Road District No. 14 Fund to General Road Fund	1,865 82	1,865 82
From Road District No. 15 Fund		
To House of Correction Account	500 00	1
To General Road Fund	1,985 81	2,485 81
From Road District No. 16 Fund to General Road Fund	1,276 27	•
From Road District No. 17 Fund to General Road Fund	2,098 84	•
From Street Paving Sinking and Interest Fund to Pav-		_,
ing Streets-Beech Street, 1891	27 28	27 28
Total Transfers	729,872 96	\$729,872 86

TABLE No. 32.

ALLEY PAVING FUND.

RECEIPTS.

From special assessments levied for paving alleys and collect tractors:	ed for	r sundry con-	
By the Receiver of Taxes\$	7,877	43	
By the City Treasurer	1,017	08	
-			\$8,891 51
DISBURSEMENTS.			
To sundry contractors:			
Julius Porath\$	152,	. ,2 7	
Liphardt and Winterhalter	3,140	17	
J. A. Mercier	3,418	58	
Henry Merdian	444	71	
Archibald Grant	55	27	
Geo. W. Winterhalter	171	45	
Western Bermudez Co	36	54	
John McLaughlin & Co	1,406	75	
T. J. Kennedy	68	77	

\$ 8,894 51

TABLE No. 33.

ART MUSEUM ACCOUNT.

RECEIPTS.

Transfer from general fund		\$12,000 00
DISBURSEMENTS.		
For Maintenance of Museum:		
Salaries of employes\$	4,898 72	
Supplies, repairs, etc	4,666 18	
Payment of notes and interest thereon	2,435 10	
-		\$ 12,000 60

TABLE No. 34.

ASPHALT PLANT FUND

RECEIPTS.

Transfer from General Road Fund	.\$9,	804	82
DISBURSEMENTS.			
Expert services	\$	75	0 u
Cash on hand July 1, 1901	. \$9	,725	 828

TABLE No. 35.

BELLE ISLE BRIDGE FUND.

Cash on hand, July 1, 1900	•••••	\$5,245 14	
RECEIPTS.			
From general city taxes, 1900 levy			
Total receipts	•••••	.\$ 8,000 00	
Total to be accounted for	••••••	***************************************	18,245 14
DISBURSEMENTS.			
Pay roll, bridge employes\$	6,960 00		
Coal	205 95	•	
Lumber	523 06		
General repairs	141 39		
Oil, waste, etc	72 19		
Repairs to boilers, etc	39 39		
Tools and brooms	22 80		
Miscellaneous	20 65		
<u></u>		\$ 7,985 43	
Cash on hand July 1, 1901		••••••	\$ 5,259 71



TABLE No. 36.

BOARD OF EDUCATION FUND.

RECEIPTS.

From sale 250 Public School bonds	\$1,063,270 61
disbursements.	
To Treasurer of the Board of Education: Proceeds Public School bonds	
	\$1,063,270 61

TABLE No. 37.

BOARD OF PUBLIC WORKS GENERAL	FUN	ID.			
Cash on hand July 1, 1900	•••••	•••	\$	854	47
RECEIPTS.					
From general city taxes, 1900 levy\$	42,064	19			
From Detroit Gas Co., for inspection gas meters	1,200	00			
From sundry individuals, for inspection gas meters	32	00			
Sale of draughting table	1	00			
Transfer from Deficiency Fund bal., 1900 appropriation	1,389	81			
		_	\$	44,687	00
			_		
Total to be accounted for	•••••	•••••	\$	45,541	47
DISBURSEMENTS.					
Pay roll Commissioners and office force\$	23,860	19			
Pay roll City Engineer and office force	19,476	79			
Postage, car fare, etc	36	55			
Supplies for Gas Inspector	60	50			
Stationery	345	98			
Miscellaneous	241	99			
-		_	\$	44,021	95

Cash on hand July 1, 1901......\$ 1,519 52

TABLE No. 38.

CITY POUNDS-EASTERN DISTRICT FUND.

RECEIPTS.

Redemption 35 impounded animals\$ Sale 1 impounded animal		75 35 —	37 10	
DISBURSEMENTS.				
Feed and supplies\$	4	31		
Pound fees refunded	1	25		
Transfer to General Fund	31	5 4		
_		-	\$ 37 10	

TABLE No. 39.

CITY POUNDS-WESTERN DISTRICT FUND.

RECEIPTS.

Redemption 32 impounded animals 37 00	
Sale 2 impounded animals 5 25	
	\$ 42 25

DISBURSEMENTS.

Transfer	to	General	Fund\$	42 25

TABLE No. 40.

CONTINGENT FUND.

Cash on hand July 1, 1900	\$ 40,439 17
RECEIPTS.	
From Corporation Counsel, taxed costs	
Settlement judgment vs. bondsmen ex-City Treas. Tuite 5,000 00	
Judgment estate John Fallon	
By A. N. Traver, voucher overpaid\$ 900 Rebate U. S. Supreme Court fees, case R. A.	
Parker vs. City	
Error in refund city taxes	
Total refunds\$ 88 58	
Transfers:	
From Liquor License Fund	
From House of Correction Account 2,502 00	
Total transfers	
·	\$ 110,665 88
Total to be accounted for	\$ 151,104 50

DISBURSEMENTS.

Pay rolls:

Extra clerks, Controller's office\$	588	4
Stenographer, Corporation Counsel's office	15	00
Substitute engineers and conductors, City Hall	70	08
Substitute engineers, M. C. Building	49	47
Assistant market clerk	104	00
Extra compensation, messenger, Controller's office	105	00
Messenger, Common Council committees	104	10
Substitute janitor, City Hall	23	96
Salary, Ald. M. W. McGuire	26	67
Salary, Mayor, increased to \$5,000.00	949	98
Salary, Board of Estimates, increased to \$5 per session	2,067	00
Secretary, clerks, etc., Board of Estimates	459	00
Recount Committee, Boards of Canvassers (12th Ward)	40	00
Salary, Commissioner of Police	792	99
Stone-cutters, pavers, etc., Palmer Fountain	295	18
Jurors, extending Belle Isle Bridge approach	205	00
Recorder's Court officials	591	65
Salary, Commissioner Parks and Boulevards	416	67
Legal disbursements:		
Fees, expert testimony, looking up evidence, trans-		
cripts, general legal expenses	8,539	08
Taxed costs	254	50
Damages	9,161	05
Special legal services, street railway taxation cases	8,678	70
Refunds:		
Erroneous assessments, general city taxes	6,714	96
Erroneous assessments, opening Canfield avenue	418	70
Erroneous assessments, widening Randolph street	236	20
Erroneous assessments, opening Second avenue	59	75
Part rent, Central Market stalls	8,151	00
Sidewalk assessment	10	08
Grade separation expenses:		
Salary, City Engineer	458	31
Livery, photos, etc	41	20

Greetings, entertainment and celebrations:				
"Welcome" signs	1,410	88		
Painters, "Welcome" signs	13	50		
Twentieth Century illumination	407	84		
Repairing pavement, Dewey stand	23	85		
I. O. O. F. arch (1899)	493	00	,	
Entertaining congressional committee	230	85		
Miscellaneous:				
Official trips, conventions, etc	613	11		
G. A. R. Building, fixtures and expenses	857	00		
Indemnity bonds, city officials	877	00		
Rent of slip Milton D. Ward	150	00		
Viscaya cannon expenses	1,264	45		
Engraving bonds	126	00		
Dues, League of American Municipalities	60	00		
Maps	190	- 6C		
Testing weights and measures	32	37		
Certified copies, approved bills	70	20		
Water for charitable institutions	2,000	00		
Advertising charter amendment, Eikhoff law	662	80		
Expenses, official chimney sweep	349	00		
Interest on paving bonds, J. Grant	71	. 82		
Recording deeds	4	06		
Subscription, Bar Library	55	00		
Spanish War medals	500	00		
Funeral of ex-Ald. Jacob, livery and flowers	73	00		
Cleaning Soldiers' Monument	18	00		
· —				
Total cash disbursements	50,125	92		
Transfer to Public Health Fund	1,500	00		
-			\$	51,625 92
Cash on hand July 1, 1901			\$	99,478 58

TABLE No. 41. CONTRACTORS' INTEREST FUND.

RECEIPTS.

		•	7K 49
on repaving areas special assessments	8 07		
Six-tenths of interest collected by the Receiver of Taxes	•		
on paving alley special assessments	1 53		
Six-tenths of interest collected by the Receiver of Taxes			
on lateral sewer special assessments	70 88		
Six-tenths of interest collected by the Receiver of Taxes			

DISBURSEMENTS.

To sundry contractors, six-tenths of interest collected on lateral sewer, paving alley and repairing areas special assessments...\$ 75 48

TABLE No. 42.

DEFICIENCY FUND.

Cash on hand July 1, 1900	\$ 81,833 22
RECEIPTS.	
By the Receiver of Taxes:	
From the levy of 1898, principal \$ 964.70	
Penalties 162 38	
From the levy of 1899, principal	
Penalties 879 47	
\$ 8,020 77	
From the levy of 1900, account appropriations advanced	
from this fund	
By the City Treasurer:	
From delinquent real estate taxes, levies 1867 to 1900,	
known as city blds	
	\$ 855,884 18
Total to be accounted for	\$ 387,217 85
DISBURSEMENTS.	
Transfers to sundry funds as follows, being appropriation uncollected at time of transfer:	
Board of Public Works General Fund 1,389 81	
Belle Isle Bridge Fund 252 44	
Board of Education Fund	

Eastern Market Fund	103	20
Fire Commission Fund	21,000	56
Fire Department Retired and Pension Fund	232	78
Garbage Fund	2,096	86
General Fund	7,020	84
General Road Fund	81,578	76
Interest Fund	12,788	88
Metropolitan Police Fund	15,596	80
Park and Boulevard Fund	5,567	04
Police Pension Fund	47	98
Public Building Fund	259	74
Public Library Fund	1,698	67
Public Lighting Fund	8,072	89
Public Sewer Fund	13,812	18
Recorder's Court Fund	886	27
Repaying Fund	43,819	47
Road District No. 1 Fund	8,022	44
Road District No. 2 Fund	8,022	44
Road District No. 8 Fund	1,208	69
Road District No. 4 Fund	1,661	77
Road District No. 5 Fund	1,206	66
Road District No. 6 Fund	1,208	69
Road District No. 7 Fund	1,208	69
Road District No. 8 Fund	1,058	11
Road District No. 9 Fund	1,208	69
Road District No. 10 Fund	1,068	11
Road District No. 11 Fund	1,058	11
Road District No. 12 Fund	1,058	11
Road District No. 13 Fund	1,058	11
Road District No. 14 Fund	907	48
Road District No. 15 Fund	1,058	11
Road District No. 16 Fund	907	48
Road District No. 17 Fund	1,208	69
Superannuated Police Fund	26	
Water Commission Fund	2,896	88

\$ 214,288 46

Cash on hand July 1, 1901...... \$ 172,983 89

TABLE No. 43.

DETROIT CITY SINKING FUND.

Cash on hand July 1, 1900.....

RECEIPTS.
Earnings:
Interest on daily bank balance
Interest on street paving bonds
Interest on public improvement bonds 2,085 00
Interest on Detroit water bonds 4,450 00
Interest on Cleveland water bonds 6,000 00
Interest on public building bonds
Interest on public sewer bonds 1,000 00
Interest on Wayne County bonds 14,880 00
Interest on Michigan war loan
Interest on River Rouge, Mich., water works bonds 1,620 00
Total interest earnings
Investments matured—Street paving bonds 235,661 72
Premiums and accrued interest on city loans:
Premium on \$250,000 Public School bonds\$20,187 00
Accrued interest on \$250,000 Public School bonds 71 %
Total
Interest on street opening award fund 194 54
Penalties on 1900 taxes added by the Receiver of Taxes,
and known as "percentages"

Transfers:

"Interest on Deposits," being interest received on dai	l y	
bank balances other than Sinking Fund	43,066 40	•
		\$ 400,846 80
Total to be accounted for	•••••	\$ 809,582 28
	•	
disbursements.		
Investments:		
\$145,000 Wayne County bonds	\$158,960 41	•
\$36,000 River Rouge water works bonds	41,428 60	

Cash on hand July 1, 1901.....

\$2,000 public improvement bonds.....

\$263,689.84 Detroit street paving bonds.....

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2,114 69

\$ 848,988 74

TABLE No. 44.

RECEIPTS.

DOG POUND FUND.

Sale 526 impounded dogs	365 50 74 00 2,494 73	
Total receipts	\$	2,984 22
disbursements.	•	
Salaries, dog-wagon drivers\$	1,200 00	
Impounding dogs	1,086 50	
Food, supplies and fuel	193 18	
New dog wagon and repairs to old	181 30	
Repairs to pound	273 24	
Total disbursements		2,984 22

TABLE No. 45.

EASTERN MARKET FUND.

Cash on hand July 1, 1900		\$	3 5 76
receipts.			
From general City taxes, 1900 levy	3,026 03 108 29		
Total receipts	3,129 82	}	
Total to be accounted for		\$	3,165 08
disbursements.			
General repairs	558 54	ŀ	
Hardware	10 60)	
Plumbing	GL 24	-	
New iron hay sheds	1,869 00		
Advertising	29 85	i	
Total disbursements	•••••	· ···· \$ —	2,524 28
Cash on hand July 1, 1901	•••••	\$	640 85

TABLE No. 46.

FIRE COMMISSION FUND.

Cash on hand July 1, 1900		\$	52,066	94
RECEIPTS.				
From general City taxes, 1900 levy\$	633,560	04		
Sale of horses	2,295	00		
Sale of old hose, hose carts and other implements	476	50		
Salary for unserved time returned to Treasurer	128	87		•
Special service	302	50		
Setting and repairing hydrants	92	00		
Transfer from Deficiency Fund	21,000	56		
Total receipts		_ \$	6 57,855	47
Total to be accounted for	•••••	\$	709,912	41
DISBURSEMENTS.				

Running expenses:	
Pay roll department	443,865 58
Hay, oats and bedding	13,095 57
Harness and repairs	1,119 19
Horseshoeing	6,054 64
New horses	8,790 00
Engine repairs	5,865 97
Hose wagon repairs	2,554 77

Wagon repairs	2,174	68	
Truck repairs	8,789	71	
General supplies	7,995	27	
Washing	2,957	94	
Fuel	10,164	80	
Light	1,821	99	
Building repairs	10,234	80	
Printing and stationery	748	26	•
Hose and suction repairs	1,834	51	
- *	522,567	68	
New hose and suction	6.883	00	
Water extension	21,662		
Telegraph supplies	357		
Telegraph extension	4.527	55	
Extra parts	488		
Insurance	558	50	
New fire alarm boxes	1,000	00	
New hose wagons	2,245	00	
New fire engine	4,500	00	
New relay bells	720	00	
To complete fire boat James Battle	78,812	00	
House and equipment for fire boat James Battle	22,048	83	
Michigan avenue conduit	392	71	
Engine house No. 26	24,552	22	
Extension of Woodward avenue pipe line	2,444	50	
Total disbursements		 \$	693,760 56
Cash on hand July 1, 1901	•••••	- \$	16,151 85

TABLE No. 47.

FIRE DEPARTMENT RETIRED AND PENSION FUND.

Pensions to disabled firemen and widows and children of deceased firemen, killed or dying from injuries received while on duty...

Cash on hand July 1, 1901......

\$ 7,915 10

623 35

TABLE No. 48,

G. A. R. BUILDING FUND.

Cash on hand July 1, 1900		*	7,431 25
RECEIPTS.			
Transfer from House of Correction account	2,804	78	
Total to be accounted for	•••••	\$	10,286 08
disbursements.			
Final estimate on building\$	6,128	84	
Extras on contract	698	78	
Superintendent Construction	800	3 0	
Plans, wiring building	50	00	
Wiring building	1,398	77	
Stone walks	1,606	39	
Miscellaneous	63	4 5	
Total disbursements			10,236 08

TABLE No. 49.

GARBAGE FUND.

RECEIPTS.

From general City taxes, 1900 levy\$	62,903 15	
Transfer from Deficiency Fund, balance 1900 appropriation	2,096 85	
· _		
Total receipts	\$	65,000 00

DISBURSEMENTS.

To contractor for collection of garbage...... 65,000 00

TABLE No. 50.

GENERAL FUND.

Cash on hand July 1, 1900	•••••	••		.\$	40,819
RECEIPTS.				,	
From general city taxes:					
Levy 1900\$2	12,145	31			
Interest on back taxes collected by City Treasurer,					
levies 1857 to 1900 ("city charges")	3 1,521	80			
Total from City taxes		•	243,667 11		
From special assessments:			•		
Through the Receiver of Taxes—					
Charges on lateral sewers ("city charges")\$	521	45	•		
Charges on sidewalks ("city charges")	139	00			
Charges on area ("city charges")	1	00			
Five per cent penalty charged on all past due as-					
ments ('Fees'')	1,437	74			
"Charges advertising sale" for unpaid assessments	32	00			
Through the City Treasurer—					
City's portion, interest collected on past due assess- ments as follows:					
Paving alleys ("city charges")\$	188	11			
Lateral sewers ("city charges")	2,723	92			
Sidewalks ("city charges")	629	98			
Total special assessments		 \$	5,673 15		

From licenses:

30 auctioneers\$	216	85	
180 bakers	90	00	
21 ball alleys	132	00	
1 baseball	25	60	
45 billiard tables	220	00	
19 concerts and shows	133	00	
885 dirt wagons	414	50	
2761 dogs	2,794	65	
8 ferries	1,360	00	
159 hacks and express	748	90	
84 hack drivers	30	15	
21 intelligence offices	456	45	
14 meat peddlers	526	67	
481 meat shops	235	10	
581 milk đepots	560	06	
2030 newsboys	208	00	
2 night lunch wagons	100	00	
36 pawnbrokers	1,750	02	
845 peddlers	3,219	40	
10 porters and runners	50	00	
207 restaurants	197	35	
54 second hand stores	108	00	
6 theaters	466	70	
10 ticket brokers	92	50	
482 trucks and drays	1,347	05	
1048 engineers and firemen (collected by Boiler			
Inspector)	1,043	00	
makat Massaca			10 500 94
Total Ricenses		\$	16,520 34
From rents:			
County offices in City Hall\$	15,600	00	
Grosse Pointe Hospital grounds	91	68	
Total rents		-;	15,691 68
From franchises:			
Detroit Cfftizens' Street Railway Co2 per cent			
gross receipts Jan'y 1 to Dec. 31, 1900	19,738	36	
Detroit Citizens' Street Railway Co2 per cent			
gross receipts Ft. Wayne & B. I. St. Ry., Jan'y			
1 to Dec, 31, 1900	2,666	12	

Detroit Citizens' St. Ry. Co.—1 per cent gross re- ceipts Grand River line, Jan'y 1 to Dec. 31, 1900	2,850 58		
Fort St. Union Depot Co21/2 per cent gross earn-			•
ings, Jan'y 1 to Dec. 31, 1899	2,869 44		
Total franchises	\$	28,124 50	
From fees:			
Western hay scales\$	1,014 10		
Eastern hay scales	1,980 50		
Western Market	2,183 00		
Eastern Market	6,276 05	•	
Inspection steam boilers	3,348 00		
Tax leases	6 50		
Filing chaftel mortgages, bills of sale, etc., by City			
Clerk	687 50		
Total fees	*	15,475,65	
From fines and costs imposed in Police Court, violation	-		
ordinances	-	6,570 00	
From sales City charter and ordinances		22 75	
From deposits to cover cost publication side track ordinance		140 33	
From refund paymaster, error in time	······· ,	1 50	
From transfers:			
City pounds, Eastern district\$	81 54		
City pounds, Western district	42 25		
Deficiency fund, balance 1900 appropriation	7,020 84		
From House of Correction account	231 50		
Total transfers	\$	7,826 13	
Total receipts		\$	339,213 14
Total to be accounted for	•••••	- •\$	379,583 02



DISBURSEMENTS.

Pay roll:

Common Council	40,971	00
Mayor's office	4,699	92
Controller's office	11,217	85
City Clerk's Office	10,899	84
City Treasurer's office	15,790	00
Receiver of Taxes' office	18,445	44
Receiver of Taxes' office, extra help	6,578	80
Personal Tax Collectors, Receiver of Taxes' office	2,425	00
Board of Assessors	82,777	19
Law Department	17,937	36
Chief Accountant	2,250	00
Secretary Common Council	1,200	00
Store and Record rooms	2,063	63
Building Inspectors' office	3,600	00
Boller Inspectors' office	4,634	16
Citiy Physicians' office	6,000	00
Officers of Police Court	11,400	00
Market Clerks	1,948	00
Weighmasters	1,800	00
Poundmasters	1,800	00
Engineers, City Hall	3,203	60
Janitors, City Hall	8,386	89
Elevator Conductors, City Hall	1,444	00
Engineers and Janitors, M. C. Bldg	6,226	11
Board of Estimates	1,170	00

Fall election:

Pay roll Registrars, Inspectors, Clerks, etc\$ 1	2 ,840	00
Advertising	161	64
Registers of Electors	2 52	00
Posting notices	60	00
Election and registration lists	504	00
Registration and election supplies	669	15
Tally sheets, poll books, etc	775	50
Moving and preparing ballot boxes	245	70

Election Commission	2,148 95	
Printing	542 15	
Caucus purposes	211 93	
New election houses	4,265 11	
Putting up, taking down and repairing election		
houses	2,367 25	
Spring election:		
Pay roll Registrars, Inspectors, Clerk, etc\$	10 498 00	
Advertising	287 15	
Posting notices	60 00	
Registration and election supplies	737 62	
Taily sheets, poll books, etc	543 50	
Moving and preparing ballot boxes	255 50	
Election Commission	1,380 78	
Printing	352 80	
Caucus purposes	162 10	
Putting up, taking down and repairing election	100 10	
houses	1,465 55	
Total election expenses	\$	40,711 33
Supplies and Miscellaneous expenditures:		
•		
Cleaning market grounds	810 00	
·	810 00 289 26	
Ice for Cfty Hall and M. C. Bldg		
·	289 26	
Ice for Cfty Hall and M. C. Bldg	289 26 300 60 155 00	
Ice for Cfty Hall and M. C. Bldg	289 26 300 60	
Ice for Cīty Hall and M. C. Bidg	289 26 300 60 155 00 3,247 68	
Ice for Cīty Hall and M. C. Bidg. Ice for Bagley Fountain. Posting notices of tax sales. Fuel for City Hall. Fuel for M. C. Bidg. Postage	269 26 300 60 155 00 3,247 68 1,629,88	
Ice for Cīty Hall and M. C. Bidg	269 26 300 60 155 00 3,247 68 1,629,88 1,443 00	
Ice for Cīty Hall and M. C. Bidg. Ice for Bagley Fountain Posting notices of tax sales Fuel for City Hall Fuel for M. C. Bidg Postage Badges and license tags	289 26 300 60 155 00 3,247 68 1,629,88 1,443 00 587 15	
Ice for Cfty Hall and M. C. Bldg. Ice for Bagley Fountain. Posting notices of tax sales. Fuel for City Hall. Fuel for M. C. Bldg. Postage Badges and license tags. New furniture, carpets, etc., City Hall.	289 26 300 60 155 00 3,247 68 1,629,88 1,443 00 587 15 1,022 96	
Ice for Cīty Hall and M. C. Bldg. Ice for Bagley Fountain. Posting notices of tax sales. Fuel for City Hall. Fuel for M. C. Bldg. Postage Badges and license tags. New furniture, carpets, etc., City Hall. Hardware, locks, keys, etc.	289 26 300 60 155 00 3,247 68 1,629,88 1,443 00 587 15 1,022 96 75 24	
Ice for Cīty Hall and M. C. Bldg. Ice for Bagley Fountain. Posting notices of tax sales. Fuel for City Hall. Fuel for M. C. Bldg. Postage Badges and license tags. New furniture, carpets, etc., City Hall. Hardware, locks, keys, etc.	289 26 300 60 155 00 3,247 68 1,629,88 1,443 00 587 15 1,022 96 75 24 133 00	
Ice for Cīty Hall and M. C. Bldg. Ice for Bagley Fountain. Posting notices of tax sales. Fuel for City Hall. Fuel for M. C. Bldg. Postage Badges and license tags. New furniture, carpets, etc., City Hall. Hardware, locks, keys, etc. City Directories Maps for City offices.	289 26 300 80 155 00 3,247 68 1,629,88 1,443 00 587 15 1,022 96 75 24 133 00 232 00	
Ice for Cfty Hall and M. C. Bldg. Ice for Bagley Fountain. Posting notices of tax sales. Fuel for City Hall. Fuel for M. C. Bldg. Postage Badges and license tags. New furniture, carpets, etc., City Hall. Hardware, locks, keys, etc. City Directories Maps for City offices. Cleaning and repairing hay scales.	289 28 300 80 155 00 3,247 68 1,629,88 1,443 00 587 15 1,022 96 75 24 133 00 232 00 541 15	
Ice for Cīty Hall and M. C. Bidg. Ice for Bagley Fountain. Posting notices of tax sales. Fuel for City Hall. Fuel for M. C. Bidg. Postage Badges and license tags. New furniture, carpets, etc., City Hall. Hardware, locks, keys, etc. City Directories Maps for City offices. Cleaning and repairing hay scales. Fuel for Hay Markets.	289 26 300 80 155 00 3,247 68 1,629,88 1,443 00 587 15 1,022 96 75 24 133 00 232 00 541 15 47 15	

Transportation Boiler Inspector	251 92		
Supplies for Janitors', Engineers' and City offices	691 04		
Telegraph and messenger service	241 04		
Hauling rubbish from City Hall and M. C. Bldg	244 25		
Laundry and toilet service, C. H. and M. C. Bldg	460 81		
Sunday inspection of boilers	858 90		
Livery service—City officials	722 65		
Rubber stamps	113 69		
Deposits refunded	61 43		
Disinfectants, City Hall and M. C. Bldg	187 50		
Insurance on elevators	120 00		
Painting and repairing life preservers	282 58		
Gas lighting, City Hall and M. C. Bldg	159 40	•	
Rent, Corporation Counsel's office	1,716 00		
Miscellaneous	644 46		
Total miscellaneous		17,497 17	
Transfers:			
To Park and Boulevard Fund	600 00		
To Printing and Stationery Fund	28,600 46		
To Dog Pound Fund	2,494 72		
To Art Museum account	12,000 00		
Total transfers		43,695 18	
Total disbursements	••••••	••••••	\$ 320,702 47
Cash on hand July 1, 1901			\$ 58,880 55

TABLE No. 51.

GENERAL ROAD FUND.

Cash on hand July 1, 1900	•••••	
RECEIPTS.		
From general City taxes, 1900 levy	•••••	.\$ 1.88,225 25
From special assessments:		
Through the Receiver of Taxes-		
Building and repairing sidewalks-principal\$	547 78	}
Interest on past due sidewalk assessments	6 96	l .
Paving streets, cost of blanks, etc. "Charges on		
paving"	8,774 18	,
Paving streets, advertising and inspection	870 00)
Paving alleys, advertising and inspection	29 00)
Paving alleys, cost of blanks, etc., "Charges on pav-		
ing"	367 88	1
Paving alleys and repairing areas, City's portion		
(4 per cent) of interest on past due assessments	3 06	į
Through the City Treasurer—		
Building and repairing sidewalks	1,888 19	
Total special assessments		\$ 6,987 00
From permits:		
Repairing pavements\$	3,875 58	į
Buildings	202 90	
House moving	486 46	j
Additional on permits	85 04	ı
Total permits		\$ 4,149 98

TABLE No. 52.

HOUSE OF CORRECTION ACCOUNT.

Cash on hand July 1, 1900	85,062 00
RECEIPTS.	
From Superintendent of House of Correction, profits of furniture brush and button manufacture	
From transfers:	
From Road Districts 1, 2, 3, 4, 5, 6, 7, 8, 11 and 15\$21,800 00 From Public Entertainment Fund 1.500 00	
Total transfers	
Total receipts	58,300 00
Total to be accounted for\$	98,882 00
DISBURSEMENTS. Transfers:	

To Public Building Fund	500 00
To Road District No. 1 Fund	6,000 00
To Road District No. 2 Fund	8,000 00
To Road District No. 3 Fund	8,000 00
To Road District No. 4 Fund	6,000 00
To Road District No. 5 Fund	1,500 00
To Road District No. 6 Fund	2,500 00





Cash on hand July 1, 1901	6 73
Total disbursements\$	93,375 27
To Public Health Fund	
To Street Opening Fund	•
To Contingent Fund	_
To Park and Boulevard Fund	
To General Road Fund	
To G. A. R Building Fund	
To General Fund	
To Public Entertainment Fund	
To Road District No. 17 Fund	
To Road District No. 16 Fund	
To Road District No. 15 Fund	
To Road District No. 14 Fund	
To Road District No. 13 Fund	
To Road District No. 12 Fund	
To Road District No. 11 Fund	
To Road District No. 10 Fund	
To Road District No. 9 Fund	
To Road District No. 8 Fund	
To Road District No. 7 Fund	

TABLE No. 53.

INTEREST FUND.

Cash on hand July 1, 1900		\$ 52,758 74
RECEIPTS.	•	
From general City taxes, 1900 levy\$	140,918 62	
Transfer from Deficiency Fund, balance 1900 appropriation	12,788 88	
Total receipts		153,702 00
Total to be accounted for		206,455 74
DISBURSEMENTS.		
Interest on general City bonds		\$ 205,517 50
Cash on hand July 1, 1901		\$ 988 24

TABLE NO. 54,

INTEREST ON DEPOSIT ACCOUNT.

From City depositories for interest on daily balances of City		
money, except Sinking Fund, at rate of 21/2 per cent per annum:		
Commercial National Bank\$	10,809 44	
Peninsular Savings Bank	10,757 04	
American Exchange National Bank	10,827 70	
Detroit National Bank		10,813 45
Total receipts		43,207 63
DISBURSEMENTS.		
Refund to Commercial National Bank, over credit June interest\$	141 23	
Transfer to Detroit City Sinking Fund	43,066 40	
Total disbursements		43,207 63

TABLE No. 55.

LATERAL. SEWER FUND,

RECEIPTS.

From special assessments levied for construction lateral sewers and collected for sundry contractors:

Collected by the Receiver of Taxes\$	43,480 14	
Collected by the City Treasurer	8,946 18	
-		
Total receipts		2.46 2

DISBURSEMENTS.

To sundry contractors:

J. Affeld\$	9,022 80
J. Affeld & Son	718 77
Henry Bloss	278 80
Geo. E. Currie	2,164 70
Patrick Dee	197 65
Joseph Granger	13 65
James Grant	436 02
J. W. Hoeft	585 3 1.
Geo. Jeynes	482 00
John Jeynes	1,178 24
Aug. Koss	1,705 97
H. F. Liphardt	60 51
Liphardt & Winterhalter	917 68

A. C. Lloyd	8,813	15
J. A. Mercier	1,554	15
J. A. Mercier & Co	63	03
F. Porath	4,175	20
J. Porath	760	35
Wm. Porath	9,721	45
Thos. Quinlan	19	07
John Wagner	326	45
Geo. W. Winterhalter	703	64
T. G. Whittaker	2,589	00
W. H. Whittaker	10,938	66

TABLE No. 56.

LATERAL SEWER REFUNDING ROLL.

Cash on hand July 1, 1900	\$ 2,863 82
RECEIPTS.	
Nothing.	
DISBURSEMENTS.	
Nothing.	
Cash on hand July 1, 1901	\$ 2,863 82

TABLE No. 57.

LIQUOR LICENSE FUND.

Cash on hand July 1, 1900	\$	253,455 54
receipts.		
From County Treasurer, one-half of all liquor licenses collected		
by him within the corporate limits of the City of Detroit, less		
one-half of one per cent collection fee	273,889 33	
From special assessments for opening sundry streets on account		
of money previously advanced from this fund to pay awards on		
these streets:		
Collected by the Receiver of Taxes \$11,842 47		
Collected by the City Treasurer 3,623 70		
		
Total from special assessments\$	15,466 17	
Total receipts		289,355 50
Total to be accounted for		542,811 04
disbursements.		
Transferred to:		
Metropolitan Police Fund\$	75,500 00	
Poor Commission Fund	55,500 00	
Public Health Fund	19,723 00	
Contingent Fund	102,732 54	
Opening Orleans St. Fund	5,095 27	



Opening Twenty-sixth St. Fund	1,033	17	
Opening Brown Place Fund	804	40	
Opening Mcore Place Fund	£88	10.	
Opening Eastern Place Fund	1,384	6 0	
Opening Scovel Place Fund	1,760	00	
Opening Theodore St. Fund	7,275	49	
Opening Fifteenth St. Fund	785	29	
Opening Stanley Ave. Fund	2,446	33	
Total disbursements		\$	274,973 19
Cash on hand July 1, 1901		\$	267,887 85

TABLE No. 58.

METROPOLITAN POLICE FUND.

Cash on hand July 1, 1900	\$	24,414 12
RECEIPTS.		
From general City taxes, 1900 levy	20	
From sales material and labor:		
Helmets\$ 498 25		
Horses 1,679 50		
Harness 88 15		
Manure 4 00		
Buggy and road wagon 65 10		
Revolver and lost badges 13 33		
Old iron 2 60		
Bank patrol 4,781 50		
Private signal boxes 228 43		1
Lebor and material		
Testing scales 20 90		
Total sales	50	
From refunds:		
Unserved time 72 70		
Rebate on equipment 2 50		
Board and telegrams for County Auditors 20 11		
Total refunds \$ 95	81	

Transfers:

From Liquor License account, 1900 appropriation....\$75,500 00 From Deficiency Fund, balance 1900 appropriation.. 15,596 80

DISBURSEMENTS.

Books, staionery, printing\$	745 90
Bicycle repairs	541 28
Barn supplies	486 59
Equipments	1,549 62
Fuel	2,923 73
Furniture, carpets, bedding	797 80
Horses	2,871 60
Hay ,grain, horse bedding	4,712 91
Horseshoeing	1,484 26
Ice and sprinkling	145 50
Harnesses and repairs thereto	534 87
Light	1,400 45
Minor supplies	608 79
Meals	1,161 90
Medical service and supplies	572 51
Newspapers, Directories, advertising	445 08
Postage	100 00
Pay roll	506,556 46
Permanent improvements	4,177 65
Repairs, painting, lumber, hardware, etc	3,994 56
Rent	265 00
Secret service	1,895 19
Rent of telephones	86 25
Signal service supplies and extensions	5,234 19
Street car tickets	850 00

Telegrams	119 78	
Wagons and repairs thereto	. 967 76	
Washing and cleaning	214 84	
Grand River Station and barn	21,837 06	
Trumbull Station	2,142 98	
Total disbursements	••••••	\$ 569,418 91
Cash on hand July 1, 1901	·····	.\$ 17,339 03

TABLE No. 59.

OPENING BROWN PLACE.

From special assessments against benefited property	870 00	•
Transfer from Liquor License Fund, advanced against unpaid		
assessments to pay balance of award	804 40	
Total receipts	\$	1,674 40
DISBURSEMENTS.		
To sundry persons, awards for property taken in opening this		
street	. \$	1,874 40
TABLE No. 60.		
OPENING EASTERN PLACE.	•	
RECEIPTS.		
From special assessments against benefited property	1,198 40	
Transfer from Moore Place, erroneous credit	214 00	
Transfer from Liquor License Fund, advanced against unpaid		
assessments to pay balance of award	1,834 60	
Total receipts	\$	2,742 00
DISBURSEMENTS.		
To sundry persons, awards for property taken in opening this		

TABLE NO. 61. OPENING FIFTEENTH STREET.

RECEIPTS.

From special assessments against benefited property	1,567 35	
assessments to pay balance of award	785 29	
Total receipts	\$	2,352 64
DISBURSEMENTS.		
To sundry persons, awards for property taken in opening this		•
street		2,852 64

TABLE No. 62.

OPENING MOORE PLACE.

From special assessments against benefited property	1,287 90	
Transfer from Liquor License Fund, advanced against unpaid		
assessments to pay balance of award	988 10	
-		
Total receipts	\$	2,271 00
DISBURSEMENTS.		
To sundry persons, awards for property taken in opening this		
street\$	2,057 00	
Transfer to Eastern Place, erroneous credit	214 00	
Model Alabamanana		
Total disbursements	X	2 271 (III)

TABLE No. 63.

OPENING ORLEANS STREET.

From special assessments against benefited property	
Transfer from Liquor License Fund, advanced against unpaid	
assessments to pay balance of award 5,095 27	

Total receipts\$	11,603 00
DISBURSEMENTS.	
To sundry persons, awards for property taken in opening this	
	11,603 00
<u></u>	
·	
TABLE No. 64.	
TABLE NO. 84. OPENING SCOVEL PLACE.	
OPENING SCOVEL PLACE.	
OPENING SCOVEL PLACE. RECEIPTS.	·
OPENING SCOVEL PLACE. RECEIPTS. From special assessments against benefited property	
OPENING SCOVEL PLACE. RECEIPTS. From special assessments against benefited property	
OPENING SCOVEL PLACE. RECEIPTS. From special assessments against benefited property	4,110 00
OPENING SCOVEL PLACE. RECEIPTS. From special assessments against benefited property	4,110 00
OPENING SCOVEL PLACE. RECEIPTS. From special assessments against benefited property	4,110 00
OPENING SCOVEL PLACE. RECEIPTS. From special assessments against benefited property	4,110 00
OPENING SCOVEL PLACE. RECEIPTS. From special assessments against benefited property	4,110 00

TABLE No. 65.

OPENING STANLEY AVENUE.

From special assessments against benefited property	1,286 67	
assessments to pay balance of award	2,446 88	
Total receipts	\$	8,682 00
DISBURSEMENTS.		
To sundry persons, awards for property taken in opening this		
street	\$	3,682 00
TABLE No. 66.		
OPENING THEODORE STREET.		
RECEIPTS.		
From special assessments against benefited property	10,528 00	
assessments to pay balance of award	7,275 49	
Total receipts		17,803 49
disbursements.		
To sundry persons, awards for property taken in opening this street	*	17,908 49
	-	====

TABLE No. 67.

OPENING TWENTY-SIXTH STREET.

From special assessments against benefited property	1,994 08	
Transfer from Liquor License Fund, advanced against unpaid		
assessments to pay balance of award	1,083 17	
Total receipts	\$	8,027 25
DISBURSEMENTS.		
To sundry persons, awards for property taken in opening this		
street		8,027 25

TABLENO. 68.

PARK AND BOULEVARD FUND.

Cash on hand July 1, 1900			4,683 (
RECEIPTS.			
From general City taxes, 1900 levy	. \$	167,984 96	
From Park phaetons		10,071 84	
From bath house	•••••	2,164 50	
From sale privileges (classified as rents):			
Pony, Belle Isle\$	475 00		
Bicycle, Belle Isle	223 97		
Casino, Belle Isle	2,70 0 00		
Skating Pavilion, Belle Isle	500 00		
Casino, Palmer Park	162 68		
Boat privilege, Belle Isle	400 00		
Total privileges		4,461 65	
From sales property:			
Horses\$	680 00		
Other animals	94 00		
Cable	612 90		
Engine, boiler, dynamo, motor, etc	560 00		
Ice	26 07		
Crushed stone	21 60		
Trees, etc	36 21		
Old iron, bicycle, etc	34 86		
Cement bags	20 30		

Total sales property.....



From	work	done	for	other	parties:

Use of steam road roller	86 75		
Teaming	25 54		
Decoration Michigan Club.	17 00		
United Railway, account waiting room at Palmer			
Park	600 00		
<u> </u>			
Total foreign work		720 29	
From refunds:			
Pay checks uncalled for		87 6 6	
From rent, boat clubs		2 00	
From State of Michigan, care of Soldiers' Monument		100 00	
From permits		36 35	
From steamboat license, landing at Belle Isle		250 00	
From sewer connections		25 25	
From special assessments, building sidewalks		874 24	
From fine, encroschment on Boulevard		2 00	
From transfers:			
From General Fund\$	600 00		
From House of Correction account	250 00		
From Deficiency Fund, balance 1900 appropriation	5,567 04		
Total transfers		6,417 04	
Total receipts	- 		194,702 61
		•	

DISBURSEMENTS.

GENERAL MAINTENANCE.

Adm	inistration:		
	Salaries\$	6,188 41	
	Printing and stationery	1,383 53	
	Office rent, etc	1,204 92	
	Incidentals	172 15	
	•		\$ 8,899 01
Engi	neering Department:		
	Salaries and wages\$	1,423 13	
	Supplies	130 19	
			1,553 32
Teler	phones:		
	Rent and repair		248 11
Gree	nhouse Department:		
4100	•	4 000 00	
	Propagation		
	Planting floral, Belle Isle	1,622 54	
	Planting floral, city parks and boulevards	866 68	
	Stock	465 11 452 15	
	Fuel	402 10	7,796 12
Tools	and Implements:		
	Purchase	2,282 21	
	Repair	767.18	
			8,049 39
Steam	Road Roller:		
	Engineer and wagon	504 00	
	Rent of roller	1,000 00	
	Repairs	114 37	
	Fuel and supplies	203 37	
			1,821 83
Stone	Crusher:		
	Engineer, repairs and supplies	1,074 50	
	Final purchase payment	187 75	
			1,262 25

Barns, Horses and Vehicles:			
Maintenance of barns and horses\$	5,630	77	
Vehicle repairs, etc	2,285	34	
Shoeing	833 7	79	
Harnesses, repairs	196	34	
Barn supplies	629 (14	
Forage	4,356	35	
City barn rent, forage, etc	1,387	00	
		-	15,818 48
Nursery:			
Labor\$	2,007 8	55	
Stock	121 1	1	
_		-	2,128 66
- · ·			
Band Concerts:			
Music			8,885 81
Fertilizer:			
Purchase and gathering			475 13
$X \subseteq Y$		-	
Total general maintenance		\$	46,438 06
Belle Isle Maintenance.			
General, labor, etc\$	9.213 :	28	
Settees and swings	103		
Signs, etc	6 (52	
Cash registers	261	25	
Flower beds	1.008	45	
Material and supplies.	649 (
Drainage	78 9	-	
Trees and shrubs.	1,462		
Flags and staff	70 '		
Scales	230		
Fuel	622		
		_\$	13,706 68
		٠	•

Buildings:

Casino\$	790 92	
Bath house	398 09	
Skating pavilion	298 41	
Casino ice-box	304 94	
Boat house	7 98	
Barn	297 22	
Greenhouse	223 90	
Inselruhe	22 16	
Ice house	80 19	
Pienic pavilions	189 07	
Horse shelter	3 63	
Buildings, general	463 30	
Furniture	398 34	
_		8,478 10
Roads and Walks:		
Road maintenance\$	2 472 96	
Road sprinkling	352 99	
Walks maintenance	198 41	
Hitching bays	143 88	
Hitching Days	139 00	3,167 64
-		2,101 05
•		
Docks and Bridges:		
Docks, care of and repair\$	221 38	
Bridges, repair	603 28	
		824 66
Water System:		
Repairs\$	307 15	
Ice and water to tanks and fountains	548 82	
Repairs to tanks	16 45	
· Ice cuttings	589 74	
Lily pond	53 50	
		1,510 66

Lakes and Canals:		
Canals\$	333 98	•
Lily pond	27 07	
Skating lake	658 31	
Beaches	6 75	1,021 11
Zoological Department:		
Care of\$	1,017 60	
Feed	1,587 50	
Cages, repair	50 73	2,606 83
Closets and Cesspools:		-,
Care of\$	948 49	
Repairs	165 74	
Supplies	56 39	1,170 62
Phaeton Service: Maintenance		5,1 9 6 48
Bath House Service:		
Maintenance	1,681 74	
Suits and supplies	408 45	2,090 19
Patrolmen:		
Wages		411 00
Rustic Stands:		
Repairs		168 90
Total Belle Isle maintenance	.	35,350 87
Boulevard Maintenance,		
Roadways and intersections	*	1,797 90
Care-takers		2,758 76
Patrolmen		1,462 00
Center and side lawns		1,790 73

CITY CONTROLLER.

General maintenance		515 07
Trees and shrubs		904 26
Floral		1 50
Water system		197 67
Walks		54 02
Viaduct		8 19
Road sprinkling		1,635 88
Total Boulevard maintenance	\$	11,120 95
Palmer Park Maintenance.		
General maintenance	*	2,711 2)
Roadways		187 61
Walks		54 76
Closets		26 48
Water tanks		2 44
Lawns		403 98
Fountains		3 0 57
Bridges		6 00
Swings		7 10
Flags and staff		28 18
Trees and shrubs		25 51
Floral		35 36
Forage		89 0 0
Ice house		4 50
Cutting ice		61 50
Buildings, general		239 31
Fuel		33 8 29
Water rates		800 00
Total Palmer Park maintenance	*	5,001 86
Clark Park Maintenance.		
General maintenance	\$	1,716 96
Floral		5 2 5
Buildings		75 56
Water		39 51
Ice		74 84
Trees and shrubs		14 76
Total Clark Park maintenance	\$	1,926 38

ANNUAL REPORT OF THE

City Parks Maintenance.

Owen:		
General	\$	27 92
Perrien:		
•		
General	65 77	
Water system	17 50	
Trees and shrubs	7 86	81 13
		91 19
Grand Circus:		
General\$	220 82	
Floral	94 57	
Water system	118 06	
		433 45
Cass:		
General\$	122 73	
Floral	88 74	
Water system	18 80	
Trees and shrubs	8 00	
•		183 27
Stanton:		
General\$	1 50	
Floral	4 38	
Water system	7 69	
		18 57
Macomb:		
Trees		3 00
Harmonie:		
General\$	7 88	
Floral	2 64	
		10 52

Campau:

General	14 11	
Water system	20 23	
		34 34
Cadillac:		
General	145 83	
Floral	3 19	
_		148 52
West:		
General	24 25	
Floral	1 60	
Water system	21 51	
Trees and shrubs	10 50	
_		57 86
Clinton:		
General	21 06	
Floral	11 39	
Water system	21 83	
-		54 27
Capitol:		
General	24 81	
Floral	37 10	
Floral	37 10 4 88	
Water system	4 88	68 98
Water system	4 88	68 98
Water system	4 88 2 19	68 98
Water system Trees and shrubs Washington: General	4 88 2 19	68 98
Water system Trees and shrubs. Washington: General	4 88 2 19 163 33 25 41	68 98
Water system Trees and shrubs. Washington: General	4 88 2 19 163 38 25 41 110 78	68 98
Water system Trees and shrubs. Washington: General	4 88 2 19 163 33 25 41	
Water system Trees and shrubs. Washington: General \$ Floral Fountain Trees and shrubs.	4 88 2 19 163 38 25 41 110 78	68 98 307 83
Water system Trees and shrubs. Washington: General	4 88 2 19 163 38 25 41 110 78	
Water system Trees and shrubs. Washington: General \$ Floral Fountain Trees and shrubs.	4 88 2 19 163 38 25 41 110 78	

Medbury:	i
General	45 11
City Hall Lawn:	
General \$ 46 73	
Floral 204 92	
	251 65
Elton:	
General	. 16 20
Crawford:	
General	9 96
Second Avenue Parkway:	
General	8 69
Boston:	
General	19 28
Opera House Lawn:	
General	2 94
Soldiers' Monument:	
Floral	29 44
City Parks General Maintenance:	
General 1,853 87	
Water system	
Floral 173 86	
Care-takers	
	6,341 24
Total city parks maintenance\$	8,162 98
General Improvements.	

Cobble, general use, purchase and hauling...... 1,211 95 Labeling trees

20 72

Settees, purchase and repair	138 60	
Sprinkling wagons, purchase	1,800 24	
Truck, purchase	143 00	
Harnesses, buggy, purchase	81 37	
Nursery storage pit	770 63	
Work wagons, purchase	414 10	
New green-house construction	11,059 52	
-		
Total general improvements	\$	18,768 88

Belle Isle Improvements.

Roads, construction of andresurfacing	3,590	60
Belle Isle Bridge approach	766	71
New ice-house	2,183	22
Telephone line (private)	424	91
Bridge No. 2	707	50
Bridge No. 7	683	00
Bridge No. 10	2,962	52
Bridge No. 12	2,777	79
Bridge No. 14	1,072	55
Dredging inlets to lakes and canals	1,179	96
Canal deepening	7,019	43
Riprapping	644	94
Landscaping at shelter pavilion	844	17
Ferry dock	486	64
Slag	313	26
Boat-house bridge	250	00
New phaeton	545	UO
New phaeton harnesses	800	06
Purchase of animals for Zoo	1,361	86
Animal cages and fences	1,622	25
Lagoon	319	96
Lagoon fence	533	05
Sprinkling system	848	29
Shut-off gate	160	19
Drinking fountains	621	96
Settees and swings	173	98
Bath-house changes	548	00
Laundry machinery	494	00

Trees and shrubs	306	45	
Steam road roller	1,750	00	
Barn, painting	249	09	
Boat-house, painting	268	21	
Pavilions	281	82	
Casino toilet	25	00	
Horse shelter toilet	45	80	
Shelter pavilion toilet	41	90	
General improvements	49	24	
_			
Total Belle Isle improvements	• • • • • • •	\$	36,433 24
Boulevard Improvements.			
Shut-off gates	85	13	
Shut-off gates	85 548		
		56	
Lawns	548	56 94	
Lawns	548 312	56 94 46	
Lawns Walk construction Walk intersections.	548 312 804	56 94 46 64	
Lawns Walk construction Walk intersections. Tool houses	548 372 804 94	56 94 46 64 47	
Lawns Walk construction Walk intersections. Tool houses Trees and shrubs, planting.	548 312 804 94 492	56 94 46 64 47 55	
Lawns Walk construction Walk intersections Tool houses Trees and shrubs, planting Viaduct planting	548 312 804 94 492 417	56 94 46 64 47 55	
Lawns Walk construction Walk intersections Tool houses Trees and shrubs, planting Viaduct planting Fairmount Park, drainage.	548 312 804 94 492 417 83	56 94 46 64 47 55 86 51	
Lawns Walk construction Walk intersections. Tool houses Trees and shrubs, planting. Viaduct planting Fairmount Park, drainage. Roadway intersection Cutting back center lawns.	548 3712 804 94 492 417 83 596	56 94 46 64 47 56 86 51 82	
Lawns Walk construction Walk intersections. Tool houses Trees and shrubs, planting. Viaduct planting Fairmount Park, drainage. Roadway intersection	548 3122 804 94 492 417 83 596	56 94 46 64 47 55 86 51 82	

Palmer Park Improvements.

Total Boulevard improvements...... 5,211 75

Water main\$	2,564 27
Conduit	443 60
Arboretum	323 81
General improvement	248 04
Lawns	38 37
Roads	858 41
Wagon shed	205 86

CITY CONTROLLER.

Tool house	214	89
Poultry house	462	34
Scales	84 9	92
Rustic work	12 (00
Walks	219	50
Trees and shrubs	114 (50
Settees	180 (00
Sewer	371 8	50
Coal pit	9 (00
Log cabin	4	85
Lodge	76	28
Log waiting room	1,212 (77
Parkway lawns	187	14
Parkway roads	2,104	26
Parkway planting	236 (09
		_
Total Palmer Park improvements		\$ 10,172 40
Clark Park Improvements.		
General	926	11
Toilet	22 8	37
Water system	1,519 2	90
Settees and swings	424 ()8
Trees and shrubs	1,175 (16
Rand stand	4 5	60
Lake	109 8	13
		-
Total Clark Park improvements	• • • • • • •	.\$ 4,181 47
City Parks Improvements.		•
•		
Owen:		
General\$	731 1	.0
Trees and shrubs	133 5	0
		-\$ 864 60
Perrien:		
General	302 7	ю .
Trees and shrubs	6 8	
		- 309 51

Grand Circus:		
General	139 83	
Walks	336 33	
Water system	131 91	
Trees and shrubs	4 80	
		612 87
Cass:		
General		343 91
Stanton:		
Walks	323 03	
Lawns	168 17	
		491 20
Macomb:		
Trees and shrubs		10 53
Harmonie:		
•		
Trees		10 50
Campau:		
General	16 04	
Trees and shrubs	12 25	
		28 29
Cadillac:		
Walks	11 80	
Trees and shrubs	10 55	22 35
West:		
General		16 50
Clinton:		
General\$	20 11	
Trees	7 00	pm ===
		27 11
Capitol:		
General\$	33 68	
	33 68 6 32	

CITY CONTROLLER.

Washington:		
Fountain\$	2,146 53	
General	79 98	
Walks	272 62	
Water system	110 02	
Trees	78 07	
		2,687 22
Recreation:		
General\$	27 18	
Trees and shrubs	1 69	
		28 87
Medbury:		
General	27 16	
Trees and shrubs.	54 63	
		81 79
•		
City Hall Lawn:		
General\$	9 00	,
Walk (cement)	152 41	101 /1
		161 41
Voigt:		
General\$	720 07	
Trees	60 00	
-		780 07
Crawford:		
General\$	2 0 72	
Trees and shrubs	17 50	
		38 22
Second Avenue:		
General		203 11
Boston:		•
General	552 55	
Trees and shrubs		
		651 65
Opera House Lawn:		
•		90.99
General		29 32

RECAPITULATION.

Park and Boulevard Fund-	Ma inten	ance.	Improv ments	
General maintenance and improvements	.\$ 46,438	06	\$18,768	38
Belle Isle maintenance and improvements	. 85,850	87	36,433	24
Boulevard maintenance and improvements	. 11,120	96	5,211	75
Palmer Park maintenance and improvements	. 5,001	86	10,172	40
Clark Park maintenance and improvements	. 1,926	38	4,181	47
City Parks maintenance and improvements	. 8.162	98	7,439	08
·	\$108,001	10	\$82,206	27
Total expenditures			. \$190,207	87
Cash on hand July 1, 1901	· · · · · · · · · · · · · · · ·		.\$ 9,177	87

TABLE No. 69.

PARK IMPROVEMENT FUND.

Cash on hand July 1, 1900..... \$ 149,567 15 RECEIPTS. Nothing. DISBURSEMENTS. Plans for Aquarium and Horticultural Building: Printing, advertising and stationery......\$ 58 22 Services and expenses of judges awarding plans...... 623 50 Premiated awards..... 600 00 Traveling and other expense investigating aquariums. 157 50 Total disbursements...... 1,429 22 Cash on hand July 1, 1901.....\$ 148,127 93

TABLE No. 70.

PAVING STREETS.

RECEIPTS.	
From special assessments levied for paving streets and collected for sundry contractors:	
By the Receiver of Taxes	
Total special assessments	
Total receipts\$	26.196 34
DISBURSEMENTS.	
To sundry contractors\$	26,196 34

TABLE No. 71.

POLICE PENSION FUND.

Cash on hand July 1, 1900	175 06
RECEIPTS.	
From general city taxes, 1900 levy	
Total receipts\$	1,400 00
Total to be accounted for\$	1,575 08
DISBURSEMENTS.	,
Pensions to widows of policemen killed while on duty	1,479 17
Cash on hand July 1, 1901\$	95 89

TABLE No. 72.

POOR COMMISSION FUND.

	• • • • • • • •	••	\$	175	6
RECEIPTS.					
Transfer from Liquor License Fund, 1900 appropriation	\$ 55,500	00			
From sales:					
Potatoes					
Effects					
From County of Wayne, relief furnished county					
oharges					
-					
Total sales	486	81.			
From refund by party aided	3	05			
Total receipts			•	EE 090	04
Total receipts				00,500	_
Total to be accounted for			\$	56,115	47
DISBURSEMENTS.					
disbursements.					
DISBURSEMENTS.	24,303	00			
	24,303 9,609		-		
Provisions	•	25			
Provisions	9,609	25 2 4			
Provisions	9,609 7,253	25 24 31	•		
Provisions Fuel and delivery	9,609 7,253 7,067	25 24 31 72	-		
Provisions	9,609 7,253 7,067 2,227	25 24 31 72 80	-		
Provisions Fuel and delivery Salaries Hospitals Drugs, medicines, etc.	9,609 7,253 7,067 2,227 1,739	25 24 31 72 80	•		
Provisions Fuel and delivery Salaries Hospitals Drugs, medicines, etc. Burials and ground	9,609 7,253 7,067 2,227 1,739	225 224 331 772 880 05 84	•		
Provisions Fuel and delivery Salaries Hospitals Drugs, medicines, etc Burials and ground. Shoes and clothing	9,609 7,253 7,067 2,227 1,739 460	225 224 331 772 80 005 84			
Provisions Fuel and delivery Salaries Hospitals Drugs, medicines, etc. Burials and ground. Shoes and clothing. Transportation Printing and stationery.	9,609 7,253 7,067 2,227 1,739 460 370 521	225 24 331 772 880 005 84 83 33	•		
Provisions Fuel and delivery Salaries Hospitals Drugs, medicines, etc. Burials and ground. Shoes and clothing. Transportation Printing and stationery Miscellaneous	9,609 7,263 7,067 2,227 1,739 460 370 521 520 514	225 224 31 31 772 890 905 64 44 53 379		54.587	R1

\$ 28,600 46

TABLE No. 73.

PRINTING AND STATIONERY FUND.

RECEIPTS.

From transfer from general fund.....

DISBURSEMENTS.	
Official printing\$	9,614 9
Legal printing	83 5 €
Printing in foreign languages	3,353 0
Job printing	6,589 8
Papers for city offices and officials	1,255 7
Stationery, books, etc	6,951 1

Total disbursements......\$ 28,600 46

TABLE No. 74.

PUBLIC BUILDING FUND.

Cash on hand July 1, 1900.....

RECEIPTS.		
From general city taxes, 1900 levy	7,640 26	
From sale old material	5 30	
From transfers:		
From House of Correction account\$509 00		
From Deficiency Fund		
Total transfers\$	759 74	
Total receipts		 8,405 30
Total to be accounted for		\$ 8,414 67
DISBURSEMENTS.		
City Hall:		
Labor, cleaning walks around City Hall, etc\$	673 00	
Electrical supplies and elevator repairs	508 44	
Engine and boiler repairs and supplies	398 17	
General repairs	1,774 26	
Furniture and office repairs	302 53	
Hardware	195 59	
Lumber	206 51	
Janitor, third floor and basement	182 00	
Miscellaneous expenditures	138 68	
Paints, glass, etc	147 67	
Plumbing	217 11	
Printing and advertising	1 12	

9 37

Health Building:			
Repairs to offices, etc\$	77 83		
Detroit Tribune, advertising	7 20		
M. E. Von Mach, painting	395 00		
-		480 03	
Municipal Court Building:			
Elevator repairs and supplies\$	81 37		
Engine and boiler repairs	162 83		
Repairs to offices, etc	1,071 49		
Plumbing	191 58		
Lumber	147 86		
General repairs, heating apparatus, kalsomining, etc	877 03		
	\$	2,532 16	
Total		\$	7,845 77
Cash on hand July 1, 1901		\$	568 90

TABLE No. 75.

PUBLIC ENTERTAINMENT FUND.

Cash on hand July 1, 1900.....

. RECEIPTS.	
From transfers from House of Correction account	12,961 01
Total to be accounted for\$	12,978 07
DISBURSEMENTS.	
Entertaining Admiral Dewey \$ 858 87	
Entertaining Cleveland Aldermen 105 57	
Entertaining State Fair Committee 92 10	
Decorations and illuminations K. of P. Convention 2,408 60	
Bi-Centenary Celebration-	
Electric floats\$ 3,000 00	
Salaries 184 66	
Postage, staffonery, etc	
3,438 06	
Transfer to House of Correction account 1,500 00	
Total disbursements\$	7,903 20
Cash on hand July 1, 1901\$	5,069 87

22 06

TABLE No. 76.

PUBLIC HEALTH FUND.

Cash on hand July 1, 1900	•••••	••••		\$ 8,611 17
RECEIPTS.			:	
From Transfers:				
From Liquor License account, 1900 appropriation\$	19,723	00		
From House of Correction	6,554	56		
From Contingent Fund	1,500	00		
Total receipts		\$	27,777 56	
Total to be accounted for	•••••			\$ 86,888 78
disbursements.				•
Messenger service	146	75		
Vaccine matter	826	58		
Groceries	8,768	81	•	
Postage	115	06		•
Care of city poor patients	2,270	77		
Anti-toxine	198	99		
Laboratory supplies	56	79		
Hospital supplies	125	48		
Livery	113	75		
Disinfectants	841	73		
Advertising	3	76		
Hospital repairs	1,072	12		
General expense	561	08		
Labor, board and building, hospital, quarantine guards,				
	25,602	87		
Fuel	986	45		
Printing and stationery	299	43		•
Total disbursements				\$ 85,989 37
Cash on hand July 1, 1901	•••••	••••		\$ 399 36

TABLE No. 77.

PUBLIC LIBRARY FUND.

RECEIPTS.

From general city taxes, 1900 levy	51,335 53	
From transfer from deficiency fund, balance 1900 appropriation	1,698 67	
-		
Total receipts		53,034 20

DISBURSEMENTS.

To Treasurer of Public Library Commission, 1900 appropriation.....

53,034 20

TABLE No. 78.

PUBLIC LIGHTING FUND.

Cash on hand July 1, 1900	54,774 76
RECEIPTS.	
From general city taxes, 1900 levy\$ 92,927 61	
From Sales:	
Foreign work\$ 2,090 57	
Old material 500 43	
Lighting public buildings 1,843 28	
Incandescent lamps 9 70	
Broken globes 1 50	
Total sales\$ 4,445 48	
From rents of poles and tracks	
From fees, inspection certificates 2,782 55	•
From transfer from deficiency fund, balance 1900 appro-	
priation 3,072 39	
Total receipts\$	105,895 61
Total to be accounted for\$	160,670 37
DISBURSEMENTS.	
Operating Disbursements:	
Wages\$58,063 53	
Stores 46.586 38	

Construction Disbursements:

Wages	• • • • • • • • • • • • • • • • • • • •
	\$ 25,147 10
Inspection Department	2,182 30
Work done for other departments	
Total disbursements	
Cash on hand July 1, 1901.	

TABLE No. 79.

PUBLIC SEWER FUND.

Cash on hand July 1, 1900	•••••	*	1,565 47
RECEIPTS.			
From general city taxes, 1900 levy	18,892 82		
From fees, permits for sewer connections	2,980 38		
From assessments for sewer connections	968 02		
From work done for other parties:			
Building, repairing and cleaning sewers\$188 96			
Building woodwork subway, M. C. R. R 248 18			
Repairing and sale of grates 64 37			
Repairing areas			
Sewer inspection			
\$	711 68		
From sale of cenemt sacks	2,896 80		
From refunds on pay rolls account errors, uncalled for		_	
pay, etc	19 89	-	
From special assessments:			
Lateral sewer inspection\$4,132 60			
City's portion (4%) on past due assessments,			
lateral sewers			
Cleaning sewers			
\$	4,196 07		
Transfer from Deficiency Fund, bal. 1900 appropriation	13,812 18		
Total receipts	••••••		144,442 79
Total to be accounted for	•••••		146,008 26

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DISBURSEMENTS.

Labor, building receiving basins\$	9,441	. 24
Labor, cleaning receiving basins	461	69
Stone receiving basins, cost of	8,318	87
Use of team for City Engineer	520	50
Labor, repairing and cleaning sewers	8,788	38
Labor, making sewer connections	8,648	25
Stakes for engineers	51	12
Tools and repairs to tools	442	92
Stationery, maps, etc	304	81
Rodman's salary	732	52
Brick	117	00
Car fare, etc	524	40
Hardware	15	20
Lumber	17	34
Sewer grates, manhole covers, etc	2,510	48
Oil, wicks, etc	26	63
Sewer pipe	5,6 59	87
Printing and advertising	272	27
Assessments refunded 322 34		
Sewer arm assessments 6,114 31		
Extras on sewer contracts		
\$	7,621	22
Cement for public and lateral sewers		
Inspection of cement and labor of handling 1,270 20		
Inspection of public and lateral sewers 9,293 25		
Miscellaneous expenditures 523 74		
\$	20,22 8	48
Public Sewer Contracts:		
Mack ave., Sec. 1		
Mack ave., Sec. 2 1,620 00		

Mack ave., Sec. 1
Mack ave., Sec. 2 1,620 00
Dubois st., fifth to final estimate 11,500 00
Morrow st., Sec. 1, first to final estimate 771 45
Cameron ave., Sec. 3, first to final estimate 4,733 22
Van Dyke ave., Sec. 7, first to final estimate 6,018 11
Dubois st., Sec. 2 (paid on estimates, not yet ac-
cepted by city)

Lateral sewer in alley between First, Cass, Fort	:	
and Lafayette ave	840 00	
Gratiot ave., Sec. 2	2,142 00	
State st., Griswold to Cass (paid on estimates)	. 3,416 00	
Lothrop ave., Sec. 3	5,066 94	
Lothrop ave., Sec. 4	5,398 50	
Maple st., not yet accepted (paid on estimates)	. 3,497 00	
Gratiot ave., between Farmer and Farrar	. 564 60	
Repairing Campau st. outlet and dock	. 761 00	
-		
Total disbursements	\$ 139,808	4
Cash on hand July 1, 1901	\$ 6,609	85

TABLE No. 80.

RECORDER'S COURT FUND.

Cash on hand July 1, 1900	••••••	\$ 947 34
RECEIPTS.		
From general city taxes, 1900 levy\$	11,718 78	
From fines and costs imposed by court	749 50	
From refunds on pay rolls account uncalled for pay	10 00	
From trans. from Deficiency Fund, bal. 1900 appropriation	886 27	
Total receipts	······································	\$ 18,359 50
Total to be accounted for	•••••••	\$ 14,306 84
disbursements.		
Salaries officers of court\$	13,607 96	
Witness fees, ordinance cases	165 00	
Printing, stationery, etc	501 04	
Total disbursements	•••••	\$ 14,273 99
Cash on hand July 1, 1901	····	 \$ 82 85

TABLE No. 81.

REDEMPTION FUND.

Cash on hand July 1, 1900	2,185 39
•	
RECEIPTS.	
From general city taxes, being moneys paid into city	
treasury by owners of property for redemption of	
same, said property having been previously sold to pri-	
vate parties for the taxes due	
Total to be accounted for\$	2,844 16
DISBURSEMENTS.	
Returned to holders tax certificates after redemption of property\$	828 78
Cash on hand July 1, 1901\$	2,015 38

TABLE No. 82.

REPAIRING AREAS FUND.

RECEIPTS.

From special	assessments	.\$	49 74
	DISBURSEMENTS.		
To Batchelder	, Wasmund & Co., contractors	\$	49 74

TABLE No. 83.

REPAVING FUND.

Cash on hand July 1, 1900	\$ 65,251 43
• RECEIPTS.	
From general cfty taxes, 1900 levy\$246,065 58	
From Detroit Cifizens' Street Railway Co. for paving Y	
on Fort street at Clark avenue 120 53	
From transfer from deficiency fund, balance 1900 appro-	
priation	
From transfer from General Road Fund	
Total receipts	\$ 291,006 58
Total to be accounted for	\$ 356,256 96
DISBURSEMENTS.	
Paid on Contracts:	
Orleans street, Gratiot to Alfred, final estimate\$ 2,212 29	
Canfield avenue, Woodward to Second, second to final	
estimate 7,163 46	
First to final estimates on the following:	
Humboldt avenue, Grand River to McGraw 7,676 11	
Dix avenue, Boulevard to Clark 11,263 69	
Joseph Campau avenue, Jefferson to Monroe 6,555 &1	
Sixth street, Pine to Selden 10,386 93	

Ash street, Trumbull to Sixteenth	11,155 71
Harrison avenue, Michigan to Grand River	17,357 73
Randolph street, Gratiot to Adams	4,729 95
Witherell street, Adams to Montcalm	4,552 99
John R. street, Cross to Adelaide	13,138 81
Jefferson avenue, to Boulevard, 207 feet east of Bald-	
win	18,658 67
Hancock avenue, Woodward to Greenwood	9,705 09
Canfield avenue, McDougall to Mt. Elliott	9,237 39
Gratiot avenue, Bellevue to Sheridan	10,445 78
Park Place, State to Clifford	5,983 83
Russell street, Sec. 1, Wabash R. R. to Boulevard	7,522 21
Russell street, Sec. 2, D. & B. C. R. R. to Clay avenue	7,049 17
Seventeenth street, Michigan to Myrtle	10,375 51
Bagley avenue, Park to Cass	7,538 12
Third avenue, Canfield to Merrick	8,674 90
Labrosse street, Trumbull to Twelfth	4,810 50
Perry streef, Trumbull to National	2,095 17
Mt. Elliott, Waterloo to Mack	7,859 65
Piquette avenue, Woodward to Brush	9,336 03
Rose street, Eighteenth to Twentieth	2,126 52
St. Antoine street, Canfield to Farnsworth	6,693 38
Scotten avenue, Michigan to Buchanan	9,312 07
Champlain street, Mt. Elliott to Boulevard	6,128 45
Grandy avenue, Gratiot to Forest	14,226 21
Sycamore sfreet, Grand River to National	2,992 78
Watson street, Woodward to Brush	4,604 75
St. Antoine street, High to Division	4,051 47
John R. street, Woodward to Cross	9,646 90
Fort street, Elmwood to Mt. Elliott	5,016 00
Congress street, Elmwood to Mt. Elliott	5,947 35
Porter street, Twelfth to Thirteenth	1,125 30
Eighteenth street, McGraw to Boulevard	6,656 82
Fourteenth street, Fort to Porter	7,113 88
Field avenue, Champlain to Kercheval	8,859 2
Kirby avenue, Woodward to John R	
Elizabeth street, Brush to Beaubien	1,799 24
Warren avenue, Woodward to Hastings	8,075 5
Atwater street, Rivard to Riopelle	
McDougall avenue, Gratiot to Canfield	9,333 10

Material:

Crushed stone\$	781 00		
Total material	\$	781 00	
Miscellaneous:			
Labor, dressing stone\$	721 81		
Extras on contracts	1,237 26		
Inspection repaving	9,213 75		
Printing and advertising	117 20		
			
Total miscellaneous	\$	11,290 02	•
Transfer to General Road Fund	\$	7,457 66	
Total disbursements	• • • • • • • • • • • • • • • • • • • •	\$	35 9,2 56 96

TABLE No. 84.

RESERVOIR FUND.

Cash on hand July 1, 1900	.\$	85 01
RECEIPTS.		
Nothing.		
DISBURSEMENTS.		
Nothing.		
Cesh on hand July 1 1901	•	95 OI

TABLE No. 85.

ROAD DISTRICT No. 1 FUND.

Cash on hand July 1, 1900	•••••	•	*	6 11	L
RECEIPTS.					
From general city taxes, 1900 levy	16,977	56			
From refunds on pay roll account pay uncalled for		76			
From transfers:			•		
From House of Correction account\$6,000 00					
From Deficiency Fund, bal. 1900 appropriation 3,022 44					
From General Road Fund	6.954	84			
					
Total receipts	••••		\$	26,232 9	5
Total to be accounted for	•••••	*** • • • • • • • • • • • • • • • • • •	\$	26,289 0	- 8
DISBURSEMENTS.					
Cleaning paved streets					
	17,126	35			
Cleaning unpaved streets	17,126 500				
Cleaning unpaved streets	,	88			
	500	88 86			
Sweeping streets	500 1,206	88 86 15			
Sweeping streets Cleaning alleys Tools and repairs to tools Sweeper brooms	500 1,206 3,169 160 492	88 86 15 45			
Sweeping streets. Cleaning alleys. Tools and repairs to tools. Sweeper brooms. Cutting trees.	500 1,206 3,169 160 492 160	88 86 15 45 53 25			
Sweeping streets Cleaning alleys Tools and repairs to tools Sweeper brooms	500 1,206 3,169 160 492	88 86 115 45 53 25			

Total disbursements........\$ 26,239 06

TABLE No. 86.

ROAD DISTRICT No. 2 FUND.

Cash on hand July 1, 1900		*	14 61
RECEIPTS.			
From general city taxes, 1900 levy	16,977 56		
From refunds on pay rolls account pay uncalled for, er-			
rors, etc	4 51		
From transfers:			
From House of Correction account\$8,000 00			
From Deficiency Fund, balance 1900 appropriation. 3,022 44			
From General Road Fund 577 62			
	11,600 06		
-	 -		
● Total receipts		\$	28,582 13
Total to be accounted for		\$	28,596 74
DISBURSEMENTS.			
Cleaning paved streets	10 000 05		
Cleaning unpaved streets	483 06		
Sweeping streets	673 10		
Cleaning alleys.			
Tools and repairs to tools	204 25		
Sweeper brooms.	253 41		
Cutting trees.	156 50		
Miscellaneous	35 05		
Transfer to House of Correction account			
	5,000 00		

TABLE No. 87.

ROAD DISTRICT No. 3 FUND.

RECEIPTS. RECEIPTS. From general city taxes, 1900 levy	5 54
From general city taxes, 1900 levy	
From transfers: From House of Correction account	
From Deficiency Fund, balance 1900 appropriation 1,208 69	
Total receipts	
	00
Total to be accounted for	50
DISBURSEMENTS.	
Cleaning paved streets	
Cleaning unpaved streets	
Sweeping streets	
Cleaning alleys 2,313 14	
Tools and repairs to tools	
Sweeper brooms	
Cutting trees 63 25	
Miscellaneous	
To House of Correction account\$2,000 00	
To General Road Fund	
\$ 2,471 42	

TABLE No 88.

ROAD DISTRICT No. 4 FUND.

RECEIPTS.

Cash on hand July 1, 1900.....

From general city taxes, 1900 levy\$	9,338	23	
From refunds on pay rolls account pay uncalled for, er-			
rors, etc	11	44	
From transfers:			
From House of Correction account	6,000	00	
From Deficiency Fund, balance 1900 appropriation	1,661	77	
From General Road Fund	587	01	
Total receipts	•••••	• • • • • • • • • • • • • • • • • • • •	17.598 46
Total to be accounted for	•••••		17,757 26
DISBURSEMENTS.			
DISBURSEMENTS. Cleaning paved streets	10,588	n	
	10,588 4 3 6		
Cleaning paved streets\$		60	
Cleaning paved streets	43 6	60 57	
Cleaning paved streets	436 2,311	60 57 02	
Cleaning paved streets\$ Sweeping streets	436 2,311 110	60 57 02 85	
Cleaning paved streets\$ Sweeping streets	436 2,311 110 181 121	60 57 02 85	
Cleaning paved streets\$ Sweeping streets	436 2,311 110 181 121	60 57 02 85 25 20	

TABLE No. 89.

ROAD DISTRICT No. 5 FUND.

Cash on hand July 1, 1900	••••	••••	*	134 44
RECEIPTS.				
From general city taxes, 1900 lovy	6,79	1 31		
From transfers:				
From House of Correction account	1,50	0 00	_	
From Deficiency Fund, balance 1900 appropriation	1,20	8 69	-	
Total receipts		••••	\$	9,500 00
Total to be accounted for	••••		\$	9,684 44
DISBURSEMENTS.				
Cleaning paved streets	4.008	3 50		•
Cleaning unpaved streets	-	87		
Sweeping streets	328	60		
Cleaning alleys	2,053	22		
Tools and repairs to tools	82	82		
Sweeper brooms	67	25		
Cutting trees	105	25		
Miscellaneous	19	61		
Transfers:				
To House of Correction account	1,600	00		
To General Road Fund	459			
·				
Total disbursements	*****	•••••••	\$	5,684 44

TABLE No. 90.

ROAD DISTRICT No. 6 FUND.

Cash on hand July 1, 1900	••••••	*	887 04
RECEIPTS.			
From general city taxes, 1900 levy	6,791 31		
From refunds on pay rolls, account earrors in time	7 00		
From transfers:			
From House of Correction account	2,500 00		
From deficiency fund, balance 1900 appropriation	1,208 69		
Total receipts		\$	10,507 00
Total to be accounted for			10,894 08
DISBURSEMENTS.			
Cleaning paved streets\$	4,810 87		
Cleaning unpaved streets	493 11		
Sweeping streets	286+38		
Cleaning alleys	2,692 88		
Tools and repairs to tools	79 26		
Sweeper brooms	147 75		
Cutting trees	125 75		
Miscellaneous	5 36		
Transfers:			
To House of Correction account\$2,000 00			
To General Road Fund			
Total transfers\$	2,252 74		
Total disbursements	••••••	<u></u> \$	10,894 08



TABLE No. 91.

ROAD DISTRICT No. 7 FUND.

Cash on hand July 1, 1900	•••••	8 45
receipts.		
From general city taxes, 1900 levy\$	6,791 81	
From transfers:		
From House of Correction account	1,000 00	
From deficiency fund, balance 1900 appropriation	1,206 69	
From Road District No. 9 Fund	54 20	
Total receipts	•••••	 9,054 20
Total to be accounted for		 9,057 65
disbursements.		
Cleaning paved streets\$	4,318 95	
Cleaning unpaved streets	465 85	
Sweeping streets	242 40	
Cleaning alleys	1,326 23	
Tools and repairs to tools	4 05	
Sweeper brooms	112 25	
Cutting trees	44 75	
Miscellaneous	142 40	
Transfers:		
To House of Correction account\$1,500 00	•	
To General Road Fund 900 77		
Total transfers\$	2,400 77	
Total disbursements		 9,067 65

TABLE No. 92.

ROAD DISTRICT No. 8 FUND.

Cash on hand July 1, 1900.....

RECEIPTS.	
From general cfty taxes, 1900 levy	
From transfers:	
From House of Correction account	
From deficiency fund, balance 1900 appropriation 1,058 11	
Total receipts\$	8,000 w
Total to be accounted for\$	8,351 44
DISBURSEMENTS.	
Cleaning paved streets	
Cleaning unpaved streets	
Sweeping streets	
Cleaning alleys 1,291 46	
Tools and repairs to tools	
Sweeper brooms	
Cutting trees 102 00	
Miscellaneous	
Transfers:	
To House of Correction account\$ 1,000 00	
To General Road Fund	
Total transfers	
Total disbursements\$	8,351 44

351 44

TABLE No. 93.

ROAD DISTRICT No. 9 FUND.

Cash on hand July 1, 1900	•••••		\$	154 62
RECEIPTS.				
From general city taxes, 1900 levy	6,791	31		
From refund on pay roll account error		75		
From transfers:				
From House of Correction account\$	1,000	00		
From deficiency fund, balance 1900 appropriation	1,208	69		
Total receipts	•••••		\$	9,000 75
Total to be accounted for	•••••	••••••	\$	9,155 37
DISBURSEMENTS.			•	
Cleaning paved streets\$	4,175	79		
Cleaning unpaved streets	1,491	67		
Sweeping streets	313	20		
Cleaning alleys	1,600	32		
Tools and repairs to tools	152	61		
Sweeper brooms	81	80		
Cutting trees	41	25		
Miscellaneous	41	72		
Transfer to:				
Road District No. 7 Fund	54	20		
General Road Fund	1,202	81.		
Total transfers		 	1,267 01	
Total disbursements	••••		\$	9,155 37

TABLE No. 94.

ROAD DISTRICT No. 10 FUND.

Cash on hand July 1, 1900	\$	87 97
RECEIPTS.		
From general city taxes, 1900 levy	89 75	
From transfers—		
From House of Correction account		
Total receipts		8,000 75
Total to be accounted for	.	8,088 72
DISBURSEMENTS.		
Cieaning paved streets. \$ 4,060 Cleaning unpaved streets. 1,216 Sweeping streets 255 Cleaning allays 1,569 Tools and repairs to tools. 87 Sweeper brooms 47 Cutting trees 80 Miscellaneous 10 Transfer to General Road fund. 760	68 69 93 60 19 25 28	
Total disbursements	\$	8,068 72

TABLE No. 95.

ROAD DISTRICT No. 11 FUND.

Cash on hand July 1, 1900	*	314 53
RECEIPTS.		
From general city taxes, 1900 levy		
From transfers:		
From House of Correction account		
From deficiency fund, balance 1900 appropriation 1,068 11		
Total receipts		8,000 00
Total to be accounted for	\$	8,814 53
DISBURSEMENTS.		
Cleaning streets		
Cleaning unpaved streets		
Sweeping streets		
Cleaning alleys 1,278 34		
Tools and repairs to tools		
Sweeper brooms 72 25		
Cutting trees		
Miscellaneous 20 35		
Transfers:		
To House of Correction account		
To General Road Fund 613 40		
Total transfers		

Total disbursements 8,314 53

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TABLE No. 96.

ROAD DISTRICT No. 12 FUND.

Cash on hand July 1, 1900	•••••	*	409	40
RECEIPTS.				
From general city taxes, 1900 levy\$	5,941 89			
From refunds on pay rolls account pay uncalled for	17 26			
From transfers:				
From House of Correction account	1,000 00			
From Deficiency Fund, balance 1900 appropriation	1,058 11			
Total receipts			8,017	25
Total to be accounted for	•••••	\$	8,426	- 65
DISBURSEMENTS.				

Cleaning paved streets\$	3,988	58
Cleaning unpaved streets	1,755	11
Sweeping streets	219	50
Cleaning alleys	702	49
Tools and repairs to tools	67	00
Sweeper brooms	86	86
Cutting trees	15	50
Miscellaneous	4	00
Transfer to General Road Fund	1,587	67

al disbursements......\$ 8,426 65

TABLE No. 97.

ROAD DISTRICT No. 13 FUND.

Cash on hand July 1, 1900	.\$	68 81
•		
RECEIPTS.		
From general city taxes, 1900 levy \$ 5,941 89		
From transfers:		
From House of Correction account		
From deficiency fund, balance 1900 appropriation 1,058 11		
Total receipts	\$	8,000 00
Total to be accounted for	\$	8,068 81

DISBURSEMENTS.

Cleaning paved streets\$	3,765 96
Cleaning unpaved streets	1,572 30
Sweeping streets	218 40
Cleaning alleys	1,050 49
Tools and repairs to too's	68 14
Sweeper brooms	31 50
Cutting trees	13 25
Transfer to General Road Fund	1,848 78

TABLE No. 98.

ROAD DISTRICT NO 14 FUND.

Cash on hand July 1, 1900		*	1,425 96
RECEIPTS.			
From general city taxes, 1900 levy	5,092 5	1	
From transfers:			
From House of Correction account	1,000 00	,	
From deficiency fund, balance 1900 appropriation	907 4	3	
Total receipts	•••••	·····\$	7,000 00
Total to be accounted for	••••••	\$	8,425 95
DISBURSEMENTS.			
Cleaning paved streets\$	3,371 1	9	
Cleaning unpaved streets	2,101 1)	
Sweeping streets	239 3	6	
Cleaning alleys	653 2	3	
Tools and repairs to tools	66 0	5	
Sweeper brooms	80 2)	
Cutting trees	47 5)	
Miscellaneous	2 9	5	
Transfer to General Road Fund	1,865 8	2	
		_	

TABLE No. 99.

ROAD DISTRICT No. 15 FUND.

Cash on hand July 1, 1900	*	338 49
RECEIPTS.		
From general City taxes, 1900 levy	5,941 89	
From pay uncalled for	1 50	
From transfers:		
From House of Correction account	\$ 1,000 00	
From Deficiency Fund, balance 1900 appropriation.	1,068 11	
Total receipts	\$	8,001 5
Total to be accounted for	\$	8,339 \$
DISBURSEMENTS.		
Cleaning paved streets	2,163 49	
Cleaning unpaved streets	2,809 33	
Sweeping streets	215 90	
Cleaning alleys	479 42	
Tools and repairs to tools	104 19	
Sweeper brooms	72 50	
Miscellaneous	9 35	
Transfers:		
To House of Correction account\$ 500 00		
To General Road Fund		
Total transfers	2,485 81	
Total disbursements		8,339 9

TABLE No. 100.

ROAD DISTRICT No. 16 FUND.

Cash on hand July 1, 1900		\$	1,201 73
RECEIPTS.			
From general City taxes, 1900 levy\$	5,092	52	
From transfers:			
From House of Correction account	1,000	00	
From Deficiency Fund, balance 1900 appropriation	907	48	
Total receipts	•••••	\$	7,000 00
Total to be accounted for	• • • • • •	\$	8,201 73

DISBURSEMENTS.

Cleaning paved streets	2,627 1	9
Cleaning unpaved streets	3,854 9	1
Sweeping streets	201 8	4
Cleaning alleys	84 7	5
Tools and repairs to tools	95 9	7
Sweeper brooms	40 7	5
Cutting trees	14 00	0
Miscellaneous	6 0	5
Transfer to General Road Fund	1,276 2	7

TABLE No. 101,

ROAD DISTRICT No. 17 FUND.

Cash on hand July 1, 1900	\$	344 06
RECEIPTS.		
From general city taxes, 1900 levy	6,791 31 3 56	
From transfers: From House of Correction account From deficiency fund, balance 1900 appropriation		
Total receipts		9,003 56
Total to be accounted for	\$	9,847 64
disbursements.		
Cleaning paved streets	2,468 38 3,606 04	

	-,
Cleaning unpaved streets	8,606 04
Sweeping streets	226 60
Cleaning alleys	645 99
Tools and repairs to tools	114 31
Sweeper brooms	66 00
Cutting trees	7 00
Miscellaneous	114 48
Transfer to General Road Fund	2,098 84

TABLE No. 102.

SIDEWALK FUND.

RECEIPTS.

From special assessments levied for construction sidewalks and		
collected for sundry contractors	\$	468 34
DISBURSEMENTS.		
To sundry contractors—		
J. Cory	26 90	
John Kessler	69 17	
F. Gies	43 68	
Jeremiah Casey	45 64	
.J McInnis	21 70	
H. T. Bush	146 03	
Theo. Funke	5 00	
W. H. Maxwell	19 50	
C. A. Cook	90 72	
-		
Total disbursements	\$	468 34

TABLE No. 103.

STREET AND ALLEY OPENING LEGAL TENDER ACCOUNT

Cash on ha	and July 1, 1900	679 95
	RECEIPTS.	
Nothing.		
	DISBURSEMENTS.	
Nothing.		
	Cash on hand July 1, 1901\$	679 95

TABLE No. 104.

STREET OPENING FUND.

Cash on hand July 1, 1900	*	4,610 25
RECEIPTS.		
From special assessments for opening sundry streets and alleys to reimburse fund for moneys previously advanced from it for payment of awards:		
Collected by the City Treasurer		
Collected by the Receiver of Taxes	ann ne	
Total special assessments \$ 2,8 From sales property:	322 26	
Sales houses, sheds, etc., in line of streets	790 00	
From House of Correction account	175 67	
Total receipts		12,787 98
Total to be accounted for		17,398 18

DISBURSEMENTS.

Assessments against City, opening sundry streets	7,950 86	•
Settlement mortgage interest in property taken in opening of Mack		
avenue	1,500 00	
Assessment refunded, Belvidere avenue	100 00	
General expenses, opening streets:		
Pay rolls jurors\$ 3,033 75		
Sheriff's fees 987 40		
Advertising 586 40	•	
Expert testimony		
Abstracts of title		
Meals for jurors		
Recording deeds 24 41		
Livery 113 05		
Transcript of testimony 54 32		
Attorney's fees and taxed costs	•	
State and county taxes 5 88		
Stationery, blanks, etc		
	6,966 36	
Total disbursements	\$	16,517 22
Cash on hand July 1, 1901,	 \$	880 96

TABLE NO. 105,

STREET PAVING, SINKING AND INTEREST FU	ND,			
Cash on hand July 1, 1900		•	3 07, 46 9	78
RECEIPTS.				
From special assessments for paving streets:				
Through the Receiver of Taxes				
Through the City Treasurer 34,979 69				
Total special assessments	186,777 65			
Total receipts		\$	186,777	65
Total to be accounted for		\$	494,247	43
DISBURSEMENTS.				
Payment street paving bonds	\$ 235,661 72			
Payment coupons on street paving bonds	21,842 86			
Transfer to Paving Streets—Beech street, 1891	27 28			
Total disbursements		\$	257,531	86
Cash on hand July 1, 1901	·····	\$	236,715	57

TABLE No. 106.

SUPERANNUATED POLICE FUND.

Cash on hand July 1, 1900		\$	3,254 86
RECEIPTS.			
From general City tax, 1900 levy	1,073	D8	
From sale unclaimed property, etc	139	25	•
From fines	395 (00	
From cash taken from siezed slot machines	311	50	
For special officers furnished	275	90	
From cash in pocketbooks found	68	33	
From L. F. Weiss, share in Dominion Bank, Napanee, Ont., reward			
-donated	30 ()0	
From transfer from Deficiency Fund, balance 1900 appropriation	26 9	92	
Total receipts	•••••	 \$ 	2,314 08
Total to be accounted for	•••••	\$	5,568 94
DISBURSEMENTS.			
Pensions to superannuated members of the police force	4,262	H	
Total disbursements		\$	4,262 24
Cash on hand July 1, 1901	•••••	\$	1,306 70



TABLE No. 107.

SUSPENSE ACCOUNT.

. Overdraft July 1, 1900	\$ 8,898 84
receipts.	
Nothing.	
DISBURSEMENTS.	
Nothing.	
Overdraft July 1, 1901	\$ 8,898 84
	AND

TABLE No. 108.

WATER COMMISSION FUND.

RECEIPTS.

	levy	
Total receipts		\$ 75,000 0 0

DISBURSEMENTS.

TABLE No. 109.

WATER PIPES AND MAINS RE-FUND.

RECEIPTS.

Refunded by Water Commission		
Total receipts	 \$	13,998 96
DISBURSEMENTS.		
Assessments refunded to various parties account unconstitution-		
ality of law under which assessments had been collected		13,998 96

TABLE No. 110.

WESTERN MARKET FUND.

Cash on hand July 1, 1900		.\$	3,653 41
Nothing.			
DISBURSEMENTS.			
General repairs\$	2,752 1	2	
Paints, oil, etc	816 0	9	
Hardware	37 8	1	
Plumbing	34 9	8	
Lumber	7 2	8	

Cash on hand July 1, 1901.....

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PART III.

THE PUBLIC DEBT AND THE SINKING FUNDS

1.	GENERAL CITY BONDS,		-		TABLE 111
2,	STREET PAVING BONDS,	-		-	TABLE 112
3.	WATER BONDS, -		-		TABLE 113
4.	THE SINKING FUNDS.	-		-	TABLE 114
5	NET PURLIC DERT				TARLE 115

). 1901.

	ATURE.	Rate of Interest.	Interest basis sold on.	Num- bers.	Denom- ination.	How payable.	Amount.
Pub	1, 1911	8%	81⁄2	201- 206	\$ 5,000.00	Lawful mency	\$ 30,000.00
Pub	1, 1906	81/4	8,48	1- 100	1,000.00	64	100,000.00
Pub	1, 1916	81/4	8.45	207- 806	1,000.00	60	100,000.00
Pub	81. 1916	814	8.49	307- 408 507- 576	1,000.00	44	170,000.00
Pub	1, 1918	8 6 5–100	8 64 4 9	577- 67 6	1,000.00	44	100,000.00
Put	e 1, 1918	4	8.88¾	101- 250	1,000.00	"	150,000.00
Put	1, 1919	4	8.60%	1- 260	1,000.00	"	280,000.00
Par	. 1, 1920	4	8.55	1- 100	1,000.00	••	100,000.00
*Pu	81, 1916	4	8.49	407- 506	1,000.00	44	100,000.00
Pub	1, 1920	4	8.60%	261- 500	1,000.00	66	240,000.00
Par	. 1, 1921	• 4	8.77%	101- 200	1,000.00	"	100,000.00

TABLE NO. 112. STREET PAVING BONDS

Issued by the City of Detroit, and outstanding June 30, 1901.

	1			WHEN DUE	J.B.			
FOR WHAT STREET	BOND.		1901	1902	1908	1904	1906	TOTAL.
Stanley avenue.	1418-1419	July 6	\$ 908 71	12 808 4				\$ 1,817 42
Chandler avenue	1422-1423	6	1,334 62	1,344 62	:			2,669 24
Richard street	1546-1548	15	454 90	454 80	\$ 454 90		:	1,864 70
Boston boulevard	1685-1688	19	2,992 27	2,992 27	2,992 27	\$2,802 27		11,969 06
Westminster avenue	1428-1427	 8i	2,755 69	2,755 69		:	:	5,511 38
Frank street	1689-1692		632 42	632 42	682 42	682 42		2,529 68
Bowen avenue	1550-1552	81	1,644 02	1,644 02	1,644 02			4,982 06
Seyburn avenue	1554-1556	88	676 50	678 50	676 50			2,029 50
Seventh street	1254	31	2,038 60	:				2,088 60
Lothrop avenue	1558-1560⅓	August 5	1,702 41	1,702 41	1,702 41			5,107 28
Avery avenue	1258	n	3,506 06					8,506 06
Parker avenue	1430-1431	88	1,125 60	1,125 60				2,251 20
Lawrence avenue	1434-1435	88	1,475 09	1,475 00			:	2,950 18
Wilkins street	1282	21	1,182 28					1,182 28
Antoinette street	1286	21	624 15					624 15
Elmwood avenue	1270	23	1,555 92		:			1,555 92
Cadillac avenue	1438 1439	Sept. 3	1,422 90	1,422 90				2,845 80
Willis avenue	1274	4	278 41					278 41
Theodore street	1278		745 28	:				745 28
Junction avenue	1282		2.292 93					2,292 98

STREET PAVING BONDS-Continued.

	2			WHEN DUE	JE.			
FOR WHAT STREET	BOND.		1061	1902	1908	1904	1906	TOTAL.
Seventh street	142-1448	Sept. 10	\$1,277 78	\$1,277 78				\$2,555 46
Marston avenue	1562-1564	16	1,381 38	1,381 38	\$1,881 88			4,144 14
Wabash avenue, sec. 1	1286	18	273 82			:		273
Wabash avenue, sec. 2	. 1290	18	1,997 38		•	:		1,997 88
Baltimore avenue	1584	18	1,832 28		:	_ :	:	1,882 28
Pennsylvania avenue	1298	18.	1,347 80	•		:	:	1,347 80
Miller street	1302	18	406 80					406 80
Meldrum avenue	1566 1568	88	1,541 08	1,541 06	1,541 06			4,623 18
Twelfth street.	1446-1447	24.	2,418 33	2,418 33		:	:	4,836 66
Piquette avenue	1450-1451	24	1,178 98	1,178 98		:		2,357 86
Marcy street	1306	88	522 58					522 58
Theodore street	1570 1572	30.	1,206 34	1,206 34	1,206 34		:	8,619 02
Humboldt avenue	1574-1578		1,164 36	1,164 36	1,164 36			3,498 08
Orleans street	1454-1455	October 1	492 60	486 60				986 20
Erskine street	1458-1459		2,427 52	2,427 52	:			4,855 04
Koch avenue	1310	2	2,291 81	:	:	•	:	2,291 81
Gratiot avenue, sec. 1	1693-1696	3	3,768 73	3,768 73	8,768 78	\$8,768 78		15,054 92
Alfred street	1697-1700	3	1,170 02	1,170 02	1,170 02	1,170 02	:	4,680 08
Grummond avenue	1701-1704	60	4,886 26	4,886 26	4,886 26	4,886 28		19,545 04
Euclid avenue	1705-1708		2,835 91	2,835 91	2,885 91	2,835 91		11,943 64
Rosedale Court	1700-1712	6.	4,733 66	4,738 65	4,788 66	4,783 65		18,884 60
Clark avenue	1713-1716		4,982 14	4,962 14	4,982 14	4,982 14		19,928 56

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STREET PAVING BONDS-Continued.

FOR WHAT STREET	NO. OF				WHEN DUE.	UE.			TOTAL
	BOND.			1061	1902	1908	1904	1906	i i
Ash street	1814	October 9.		\$8,827 66	::				\$8,327 66
Lysander street	1818	о 3	:	2,996 89	:				2,996 89
Gratiot avenue, sec. 2	0271-7171	13	-	8,787 18	\$8,787 18	\$8,787 18	\$8,787 18		14,948 52
Seventeenth street	1678-1580	., 14.	:	1,712 31	1,712 81	1,712 81			5,136 98
Harper avenue	1582-1584	14.	:	1,416 31	1,416 31	1,416 81			4,248 98
Seward avenue	1462-1463	. 15	i	2,270 88	2,270 88	:			4,540 98
Buchanan street	1488-1467	15.	:	3,469 21	8,469 21				6,938 42
Warren avenue, sec. 1	1322	16.	16	240 08			:		240 08
Tuscola street	1828	., 16	9	684 88	:			:	88 88
Van Dyke avenue	1721-1724	.4 17.	17	2,656 94	2,656 94	2,656 94	2,656 94		10,627 78
Alfred street	1586-1588	; ;	:	890 31	390 31	390 31			1,170 98
Brewster street	1590-1592	21.	21	386 41	888 41	386 41	:		1,150 28
Hecla avenue	1504-1596	21.	:	811 69	811 69	811 60			2,485 07
Wreford avenue	1471-1472	3 3	:	388 54	2588				1,967 08
Holden avenűe	1330	នាំ	:	1,556 12					1,558 12
Laurel street	1834	: :	:	1,457 19	:				1,457 19
Noble street	1338	8	8	1,061 37				:	1,061 3
Eighteenth street	1598-1900	8 9	88	2,616 48	2,618 48	2,616 48	:	:	7,849 44
Mott avenue	1602-1604	8	:	1,759 32	1,759 82	1,759 82	?		5,277 98
Orleans street	1606-1608	8i :	:	344 46	344 46	344 46			1,088 38
Gratiot avenue	1610-1612	8 9	i	289 43	299 43	200 43			888 20
Larned street	1614-1616	8 9	i	799 49	799 49	799 49		:	2,398 47
McClellan avenue	1475-1476		88	2,835 58	2,835 58	:	:	:	5,671 16
Alexandrine avenue	1479-1480	39.	—. ::	661 80	661 80				1,108 60

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STREET PAVING BONDS--Continued.

FOR WHAT STREET	NO. OF			WHEN DUE	JE.			TOTAL.
	BOND.		1901	1902	1908	1904	1906	
Helen avenue	1847	October 80	\$2,454 01					\$2,454 01
Hazelwood avenue	1361	80	880 42					860 42
Vinewood avenue, sec. 1	1866		1,508 49		:		:	1,508 49
Vinewood avenue, sec. 2	1859	88	418 75	:			:	416 75
Greenwood avenue	1363	80	1,855 01		:			1,855 01
МсGraw avenue	1725-1728	81	2,238 05	\$2,283 06	\$2,233 06	\$2,283 05		8,982 20
Harper avenue	1729-1782	81	1,502 48	1,502 43	1,502 43	1,502 43		6,009 72
Sixth street	1788-1736	81	2,225 98	2,225 98	2,225 98	2,225 98		8,908 92
Antoinette street	1787-1740	81	866 78	826 78	866 78	826 78		8,427 12
Ferry avenue	1741-1744	81	962 78	962 78	952 78	962 78	:	3,811 12
Porter street	1746-1748	81	380 87	800 84	380 84	390 94	:	1,563 76
Scotten avenue	1618-1620	November 4	2,528 56	2,523 56	2,523 56			7,570 68
Moran street	1622-1624	. ,	88 88	383 06	828 65	:		969 15
Crane avenue	1488-1484		5,151 24	5,151 24	:			10,902 48
Lieb street	1487-1488	22	96 799	96 499				1,896 92
Bellevue avenue, sec. 1	1867	÷	1,145 45			•	:	1,145 45
Bellevue avenue, sec. 2	1371	90	1,971 18	:		:		1,971
Warren avenue, sec. 2	1875	9	8,969 64		:	:		8,969 64
Warren avenue, sec. 8	1879	9	2,507 61		:			2,507 61
Standish street	1383	9	584.88			•		284 88
Bagley avenue	1749-1752	7	1,800 87	1,800 87	1,800 87	1,800 77		5,208 48
	1626-1628	11	1,046 54	1,046 54	1,046 54	:		3,139 62
Нифвон аvenue 1630-1682	1630-1682	. п	1,917 98	1,917 96	1,917 96			5,753 88
Milwaukee avenue.	1634-1686		2.541 44	2,541 44	2,541 44			7,624 82

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STREET PAVING BONDS-Continued.

FOR WHAT STREET	NO. OF				WHEN DUE	UE.			TOTAL.
	POND.			1081	1902	1908	1904	1906	•
Concord avenue	1491-1492	November 12	r 12	\$2,375.13	\$2,375 13				\$4,750 28
Townsend avenue	1343	:	13	2,166 29		:		:	2,166 29
Hastings street	1387	3	13	1,087 62				:	1,067 62
Hamilton boulevard	1381	:	13	2,988 73		:			2,988 73
Kirby avenue.	1758-1756	3	14	1,098 31	1.098 31	\$1,098 31	\$1,093 31		4,873 24
Rivard street	1757-1760	=	14	4,602 28	4,602 28	4,602 28	4,602 28		18,409 12
Moran street	1761-1764	3	14	1,812 76	1,812 76	1,812 76	1,812 76		7,251 04
Baltimore avenue	1765-1768	:	14	373 90	373 90	378 90	878 80		1,495 60
Clay avenue, sec. 8	1638-1640	3	81	614 14	614 14	614 14	:	:	1,842 42
Sidney avenue	1642-1644	:	18	2.632 37	2,632 37	2,682 37		:	7,807 11
Canfield avenue	1646-1648	3	18	1,239 02	1,239 02	1,239 02	:		8,717 06
Lafayette avenue	1650-1652	:	.:	19 191	157 61	757 61			2,272 88
Baldwin avenue	1495-1496	3	19	4,290 94	4,290 94		:		8,581 88
Parkview avenue	1395	3	8	677 30		:	:		677 30
Concord avenue	1399	:	:	3,165 23			:	:	8,165 23
Dalzelle street	1408	3	8	808 338					808 38
Field avenue	1769-1772	3	22	4,155 73	4,155 78	4,155 78	4,155 73		16,622 92
Van Dyke avenue	1773-1776	3	21	3,700 27	3,700 27	3,700 27	3,700 27	:	14,801 08
Garfield avenue	1777-1780	:	. 12	£ 2	644 84	644 84	644 84		2,579 36
Warren avenue	1781-1784	:	:	139 93	139 98	139 98	139 98	:	569 72
Vinewood avenue	1654 1656	:	83	1,946 10	1,946 10	1,946 10	:		5,888 30
Beaufait avenue	1658-1660	:	18	1,900 28	1.900 28	1,900 28	:		5,700 78
Rowena street	1662-1664	:	8 8	743 24	748 24	748 24	:	:	2,229 72
St. Antoine street	1666-1668	3	153	419 54	419 54	419 54	_:		1,258 62

STREET PAVING BONDS- Continued.

FOR WHAT STREET	NO. OF			WHEN DUE				TOTAL
	BOND.		1901	1902	1908	1904	1805	
Fifteenth street	1499-1500	November 26	\$8,627 79	\$8,527 79	.			\$7,066 58
Holcomb avenue.	1407	. 88	996 12		:			996 12
Amsterdam street	1785-1788	27	704 78	704 78	\$ 704 78	\$ 704 78		2,819 12
Amsterdam street	1789-1792	: 88	88 88	282	88	282 28		1,129 16
Beaublen street	1508-1504	December 3	881 94	881 94				768 88
Beaubien street	1507-1508	8	768 75	768 75				1,587 50
Theodore street	1511-1512		1,275 52	1,275 52			:	2,551 04
Welch avenue	1515-1516	8	08 689 689	98 98				1,279 60
Lieb street	1519-1520	8	273 70	278 70				547 40
Delaware avenue	1411	4	1,579 89	:				1,579 89
Maybury Grand avenue	1788-1796	9	8,581 26	8,581 26	3,581 26	3,531 26		14,125 04
Poplar street	1670-1672	8	386 78	886 78	386 78			1,160 34
Pallister avenue	1674 1676	6	2,630 99	2,630 99	2,630 99	: : :		7,892 97
Bellevue avenue	1678-1660	8	1,151 02	1,151 02	1,151 02	:		8,453 06
Oakland avenue	1682-1684	6	741 28	741 28	741 26	:		2 228 78
Second avenue	1523-1524	17	1,383 70	1,888 70				2,067 40
Seventeenth street	1527-1528	83	2,402 86	2,402 86				4,805 72
In Beaubien street between tracks	1581-1582	88	156 64	156 64		:	:	818 28
In Beaubien street between tracks	1585-1586	88	277 85	277 85	:			1999.
River street	1797-1800	January 9	:	8,027 81	8,027 81	8,027 81	\$3,027 81	12,111 24
Second avenue	1539-1540	14	:	5,050 19	5,050 19	:	:	10,100 38
Erskine street	1548-1544	June 10		2,460 14	2,460 14	:		4 920 28
Frank street	1415			500 55				500 55
Totals			\$219,660 00	\$168,287 40	\$117,254 85	\$65,922 46	18,027 81	\$574.102 52

TABLE No. 113.

WATER BONDS OUTSTANDING JUNE 30, 1901.

Act of	Issued.	Mature.	Rate.	Numbers.	Denom- ination.	Amount.
1869	August 1, 1872	August 1, 1902	7 per cent	1-50	1,000 00	\$50,000 00
1869	August 1, 1878	August 1, 1908	7 per cent	1-50	1,000 00	50,000 00
1878	February 1, 1874	February 1, 1904	7 per cent	1-36 46-50	1,000 00	41,000 00
1869	August 1, 1874	August 1, 1904	7 per cent	1 1-111	1,000 00	44,000 00
1878	August 1, 1874	August 1, 1904	7 per cent	(51_900)	1.000 00 10,000 00	200,000 00
1878	June 1, 1875	June 1, 1905	7 per cent	908-995	1,000 00	149,000 00
1878	June 1, 1876	June 1, 1906	6 per cent	C 050 400)	1,000 00	199,000 00
1878	January 10, 1895	January 10, 1925	4 per ccnt	,	1,000 00	100,000 00
1858	*February 1, 1900	February 1, 1980	8½ per cent	1-200	1,000 00	*200,000 0 0
	Total					\$1,083,000 0

^{*} Refunding bonds.

TABLE No. 114.

THE SINKING FUNDS.

DETROIT CITY SINKING FUND For the Redemption of General City Bonds.

Cash in the hands of the Commissioners
SECURITIES (par value.)
Bonds issued by the Water Commissioners
3 bonds of \$1,000 each, Nos. 14, 16 and 23, payable Aug. 1,
1902 (7 per cent)\$ 3,000 00
2 bonds of \$1,000 each, Nos. 32 and 33, payable Aug. 1, 1908 .
(7 per cent)
7 bonds of \$1,000 each, Nos. 1, 2, 3, 26, 27, 28 and 29, payable
Feb. 1, 1904 (7 per cent)
2 bonds of \$1,000 each, Nos. 84 and 173, payable Aug. 1, 1904
(7 per cent)
2 bonds of \$10,000 each, Nos. 203 and 205, payable Aug. 1,
1904 (7 per cent)
21 bonds of \$1,000 each, Nos. 206, 207, 214, 220, 222, 226, 227,
228, 233, 234, 235, 236, 282, 288, 289, 324, 325, 326, 327, 328 and
829, payable June 1, 1905 (7 per cent)
10 bonds of \$1,000 each, Nos. 356, 357,, 379, 381, 382, 383, 384, 385,
498 and 499, payable June 1, 1906 (6 per cent) 10,000 00
\$, 65,000 00
50 Public Improvement bonds of \$1,000 each, Nos. 677 to 726
inclusive, payable July 1, 1926 (4 per cent),\$50,000 00
2 Public Improvement bonds of \$1,000 each, Nos. 444 and
445, payable Dec. 1, 1916 (31/2 per cent) 2,000 00



-- 52,000 00

38 Public Building bonds of \$1,000 each, Nos. 1 to 38 inclusive, payable April 1, 1929 (4 per cent)	88,000 00
1 Registered Public Sewer bond, No. 1, payable June 1, 1918 (4 per cent)	50,000 00
1 bond State of Michigan War Loan of 1898, No. 1, payable May 1, 1908, or any time after May 1, 1903 (3½ per cent)	50,000 00
252 Wayne County bonds of \$1,000 each, No. 6 to 15 inclusive, 24, 25, 51 to 57 inclusive, 88 to 94 inclusive, 98, 99, 100, 151 to 160 inclusive, 311 to 400 inclusive, 457, 459, 460, 744, 745, 747, 750, 753, 756, 757, 758, 759, 760, 761, 773 to 780 inclusive, 783, 785, 786, 783, 790, 792, 794, 806, 818 to 830 inclusive, 863, 877, 911, 926, 927, 933 to 955 inclusive, 974, 975, 1051 to 1090 inclusive, 1171 to 1180 inclusive, payable May 1, 1910 (4 per cent)	
145 Wayne County bonds of \$1,000 each, Nos. 148 to 152	
clusive, 218 to 317 inclusive, 407 to 446 inclusive, payable	
May 1, 1914 (3½ per cent)\$145,000 00	
	\$ 397,000 00
3 Registered Water bonds of the City of Cleveland,	•
Ohio, of \$50,000 each, Nos. 249, 250 and 251, payable Oct.	
	150,000 00
E, 1928 (4 per cent)	130,000 00
3 6River Rouge, Mich., Water Works bonds of \$1,000	
each, Nos. 1 to 36 inclusive, payable June 8, 1930 (41/2	
per cent)	36,000 00
Street Paving bonds (4 per cent)	574,102 52
Total general sinking fund	\$1,761,091 26
STREET PAVING SINKING AND INTEREST FUNI	Э.
For the payment of principal and interest on street paving	bonds.
Cash on hand July 1st, 1901	
Less one year interest on bonds outstanding (\$574,192.52)	
Cash in fund for redemption of bonds	\$213,751 47
WATER COMMISSION SINKING FUND.	
For payment of principal and interest on Water Bond	8.
Cash on hand July 1st, 1901	
Less coupons due and not presented	
Cash in fund for redemption of bonds	.\$ 86,285 32

TABLE No. 115.

TOTAL NET PUBLIC DEBT.

General City bonds	,324,000	00	
Sinking fund	1,761,091	. 26	
Net general debt			\$3,562,908 74
Street paving bonds\$	574,102	5 2	
Sinking fund	213,751	47	
Net street paving debt			360,351 06
Total debt covered by 2 per cent limit			\$3,923,259 79
Water bonds	L,0 83,00 0	00	
Sinking fund	86,235	32	
Net water debt		_	946,764 68
Total net public debt			\$4,870,024 47

PART IV.

CORPORATE WEALTH.

AGGREGATE WEALTH, -

TABLE 116

DETAIL WEALTH, - TABLES 117 to 126

TABLE No. 116.

AGGREGATE CORPORATE WEALTH AND VALUE OF PROPERTY OVER LIABILITIES.

Public buildings	\$ 2,455,330 00
Markets	375,000 00
Western yard, Board of Public Works	34,850 00
Old Cemetery, Russell street	63,000 00
Hospital Grounds, Grosse Pointe	22,000 00
Belle Isle Bridge	800,000 00
Parks	6,830,000 00
Board of EducationTable No. 120	3,560,765 00
Public Library and books	551,000 00
Fire Commission	1,808,880 99
Metropolitan Police Commission Table No. 123	846,310 73
Public Lighting CommissionTable No. 124	721,861 5 6
Water CommissionTable No. 125	6,220,832 79
Vacant lots and strips of landTable No. 126	1,550 00
Total	.\$22,791,381 07
Net public debt	4,870,024 47
Value of property over liabilities	.\$17,912,356 60
Value of property over liabilities June 30, 1900	
Gain in net assets during year	.\$ 717,814 23

TABLE No. 117.

DETAIL CORPORATE WEALTH.

. PUBLIC BUILDINGS.

City Hall	2,180,480 00
Municipal Court and Health Department	71,900 00
House of Correction	245,000 00
Pest House	8,000 00
Total	2 455 390 00

CITY CONTROLLER.

TABLE No. 118,

DETAIL CORPORATE WEALTH.

MARKETS.

Eastern Market\$	235,000 00
Western Market	80,000 00
Cass Market and Grand Army Memorial Building	60,000 00
Total\$	375,000 00

TABLE No. 119.

DETAIL CORPORATE WEALTH.

PARKS

Belle Isle Park	8,000,000	00
Belle Isle Bridge Approach	75,000	00
Cadillac Park	875,000	00
Campau Park	11,000	00
Campus Martius	210,000	00
Capitol Park	200,000	00
Cass Park	165,000	00
Center Park	9,000	00
Clark Park	245,000	00
Clinton Park	82,000	00
Crawford Park	20,000	00
Elton Park	20,000	00
Grand Circus, East	700,000	00
Grand Circus, West	900,000	00
Macomb Park	7,000	00
Owen Park	60,000	00
Palmer Park	140,000	00
Perrien Park	80,000	00
Stanton Park	8,000	00
Volgt Park	45,000	00
West Park	78,000	00
Total	e e 990 000	٠ ۵۸

TABLE No. 120. DETAIL CORPORATE WEALTH.

BOARD OF EDUCATION.

Consisting of one School Inspector from each ward, elected every alternate year.

SCHEDULE OF PUBLIC SCHOOL PROPERTY JUNE 30TH, 1901.

NAME OF SCHOOL.	No. of Rooms.	Sittings,	Value of Lot	Cost of Building.	Total.
Alger	12	511	1,400	\$ 34,500	\$ 38,900
Amos	12	580	5,000	88,150	43,150
Bagley	6	306	3,700	15,900	19,600
Barstow	12	529	8,580	30 000	38,580
Bellefontaine	10	584	4,250	25,000	29,250
Bellevue	8	871	5,000	81,550	36,550
Berry	12	619	6,150	32,500	38,650
Bishop	24	1,141	11,300	56,200	67,500
Brownson	8	391	6,000	21,400	27,400
Campan	15	644	5,000	34,000	89,000
Campbell	12	509	5,800	30,000	35,300
Cass	22	992	57,000	45,085	102,085
Chaney	12	606	3,000	83,000	36,000
Clay	8	402	10,000	25,250	85,250
Clinton	8	402	5,840	18,000	23,840
Columbian	12	592	3,200	32,000	85,200
Craft	15	650	3,550	45,000	48,550
Custer	2	90	1,000	8,000	4,000
Dickinson	8	842	4,500	25,750	30,250

PUBLIC SCHOOL PROPERTY-Continued.

NAME OF SCHOOL.	No. of Rooms.	Sittings.	Value of Lot	Cost of Building.	Total.
Duffield	18	849	\$ 15,500	\$ 56,850	\$ 71,850
Estabrook	12	608	5,700	29,500	85,200
Everett	12	543	6,000	25.000	31,000
Fairbauks	12	558	4,590	30,400	84,990
Farrand	12	540	5,700	85,860	41,060
Ferry	12	576	5,000	28,000	38,000
Field	12	602	7,500	84,800	41,800
Firnane	6	812	3,950	12,000	15,960
Franklin	14	662	10,700	53,875	64,57
Garfield	8	376	6,800	22,100	28,400
Gillies	15	650	5,150	42,000	47,15
Gratiot	1	42	1,500	1,500	8,000
Hancock	12	585	7,500	30,000	87,50
Harris	15	451	5,940	41,700	47,64
Hibbard	4	80	2,800	2,500	5,30
Hickey	4	136	1,600	4,000	5,60
High, Central	61	1,524	130,350	446,750	577,10
High, Eastern	45	630	25,000	210,000	235,00
High, Western	41	600	8,000	194,000	202,00
Houghton	12	528	7,500	20,000	27,50
Hubbard	8	412	5,000	22,000	27,00
Irving	12	551	18,750	35,000	53,75
Jackson	8	392	15,000	18,000	83,00
Jefferson	18	830	9,200	60,000	69,20
Johnston	8	382	3,000	21,250	24,25
Lincoln	8	421	7,250	24,000	31,25
Lyster	8	400	1,650	22,400	24,05
McGraw	12	495	4,900	45,000	49,90
McKinstry	8	424	8,000	12,000	15,00
Newberry	12	598	4,000	80,200	84,20
Nichols	6	291	7,710	10,000	17,71
Norvell	22	1,040	5,760	50,700	56,46
Office Building	-		29,330	26,400	55,78

PUBLIC SCHOOL PROPERTY-Continued.

NAME OF SCHOOL.	No. of Rooms.	Sittings.	Value of Lot	Cost of Building.	Total.
Owen	12	600	\$ 6,800	\$ 38,200	\$ 44,500
Palmer	14	700	8,500	38,000	46,500
Parke	15	650	5,500	42,000	47,500
Pitcher	12	. 541	4,000	30,000	34,000
Poe	8	384	4,080	22,850	26,930
Potter	6	309	3,000	18,000	21,000
Preston	8	392	7,600	22,750	30,350
Roberts	8	392	5,000	25,000	30,000
Rose, M. M	12	570	6,000	33,300	39,300
Russell	16	750	Leased	53,000	53,000
Scripps	12	574	7,200	33,600	40,800
Tappan	16	770	7,600	30,000	37,600
Tilden	18	858	5,180	43,425	48,600
Trowbridge	12	598	11,400	30,000	41,400
Van Dyke	12	594	5,630	30,450	36.080
Washington Normal	24	793	8,780	46.000	54,780
Webster	19	905	6,000	45,100	51,100
Wilkins	12	499	7,200	25,000	32,200
Williams	12	652	4,900	84,150	39.050
Totals, 70 schools, 1 office building	924	38,915	\$ 647,370	\$ 2,913,895	\$ 3,560,766

BUILDINGS LEASED FOR SCHOOL PURPOSES.

	No. of Rooms	Seating Capacity	Aunual Rental
Tilden Annex	1	80	\$ 300
Ungraded No. 1	4	56	600

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TABLE No. 121.

DETAIL CORPORATE WEALTH. PUBLIC LIBRARY.

Under the management of a Board of Commissioners, elected by the Board of Education.

Land and Building\$	37 3,000 00
Volumes June 30, 1901, 165,794, estimated value	178,000 00
, 	
Tota)	551 000 00

TABLE No. 122.

DETAIL CORPORATE WEALTH. BOARD OF FIRE COMMISSIONERS.

RECAPITULATION AND INVENTORIES FOR YEAR ENDING JUNE 30, 1901.

No.	1	Engine	Company\$	10,096	58
No.	2	Engine	Company	20,700	43
No.	3	Engine	Company	23,971	23
No,	4	Engine	Company	17,881	14
No.	5	Engine	Company	20,943	62
No.	6	Engine	Company	28,000	61
No.	7	Engine	Company	24,650	32
No.	8	Engine	Company	29,115	69
No.	9	Engine	Company	26,629	04
No.	10	Engine	Company	23,653	07
No.	11	Engine	Company	22,362	09
No.	12	Engine	Company	21,758	49
No.	13	Engine	Company	21,995	82
No.	14	Engine	Company	20,717	16
No.	15	Engine	Company	22,724	95
No.	16	Engine	Company	115,577	48
No.	17	Engine	Company	25,536	87
No.	18	Engine	Company	24,034	04
No.	19	Engine	Company	28,095	71
No.	20	Engine	Company	18,964	66
No.	21	Engine	Company	18,652	37
No.	22	Engine	Company	19,360	81
No.	23	Engine	Company	19,844	83
No.	24	Engine	Company	20,124	66
No.	25	Engine	Company	64,302	33
No.	26	Engine	Company	24,399	07
No.	1	Ladder	Company	5,591	09
No.	2	Ladder	Company	26,868	06



No. 3 Ladder Company	18,017	0
No. 4 Ladder Company	13,923	1
No. 5 Ladder Company	15,662	34
No. 6 Ladder Company	26,550	3
No. 7 Ladder Company	19,514	3
No. 8 Ladder Company	25,034	4
No. 9 Ladder Company	21,469	41
No. 10 Ladder Company	18,036	4
No. 1 Hose Company	5,018	84
No. 2 Hose Company	15,711	3
No. 1 Chemical Company	11,223	2
No. 1 Water Tower Company	5,469	14
Telegraph Department	254,548	9
Supply Stables	19,472	58
Superintendent of Apparatus, supplies and extra parts	4,573	78
No. 1 Supply	530	00
No. 2 Supply	580	00
No. 3 Supply	460	00
No. 4 Supply	496	00
No. 5 Supply	561	00
No. 6 Supply	536	00
Supply Department	1,465	22
Extra property	29,890	00
Headquarters' building, lot and furniture	67,213	50
Chief of Department	499	50
Assistant Chief	472	50
Chief of First Battalion	522	50
Chief of Second Battalion	472	50
Chief of Third Battalion	522	50
Chief of Fourth Battalion	497	50
Chief of Fifth Battalion	472	50
Chief of Sixth Battalion	437	50
Superintendent of Apparatus	484	50
Assistant Superintendent of Apparatus	302	50
Fire Marshal	457	50
Assistant Fire Marshal	417	50
Water Supply Department	4,505	45
Orchard street house and lot	2,000	00
Hydrants and cisterns	474,307	33

\$1,808,880 99

TABLE No. 123.

DETAIL CORPORATE WEALTH. METROPOLITAN POLICE COMMISSION.

VALUATION OF PROPERTY, JUNE 30TH, 1901.

Belle Isle Station and barn	\$12,417	25
Chene Street Station and barn	18,825	98
Elmwood Station and barn	16,402	82
Fremont Station and barn	12,033	32
Grand River Station and barn	23,188	06
Hunt Street Station	31,207	19
Harbor Master's building	1,159	84
Headquarters	123,277	87
Headquarters' barn	28,565	13
Scotten Station and barn	15,280	98
Trumbull Station	21,608	60
Vinewood Station and barn	10,970	94
Woodbridge Station	12,000	76
Hamlin Station and barn	19,371	99
-		_
Total	346.310	73

TABLE No. 124

DETAIL CORPORATE WEALTH. PUBLIC LIGHTING COMMISSION.

Appointed by the Mayor and approved by the Common Council.

The net investment of the City of Detroit in its Public Lighting plant on June 30th, 1901, was:

Conduits	78,677	17
Belle Isle plant	23,164	19
Real estate	52,807	58
Buildings, dock, etc	92,265	21
Miscellaneous Tools and machinery	6,821	53
Overhead lines 1	22,866	82
Underground cables	49,041	64
Towers and lamp posts	81,9 10	10
Steam plant	94,915	49
Electric plant, arc	51,471	06
Electric plant, incandescent	11,538	34
Railway track and scales	9,237	81
Arc lamps	47,144	62
Total	21.861	56

TABLE No. 125.

DETAIL CORPORATE WEALTH. WATER COMMISSION.

Appointed by the Mayor and approved by the Common Council.

VALUATION OF THE CITY WATER WORKS JUNE 30, 1901.

Real estate
Buildings, docks, basins, conduits, engines, etc., at pumping sta-
tion
Water pipe in use
Meters in use
Office furniture and fixtures
Tools and materials on hand:
In office of Supt. of Construction
In office of Civil Engineer
In Inspection Department
In Meter Department
In Pumping Works Department
In Hurlbut Fund Department
At storage grounds
Total 990 999 70

TABLE No. 126

DETAIL CORPORATE WEALTH. VACANT LOTS AND STRIPS OF LAND.

N 4.15 ft. lot 15, blk. 4, sub. of Crane farm, e. Fourth ave\$	200 00
N. 1.82 ft. o. l. 32, sub. of Crane farm, w. Fourth ave	50 00
N. 1.17 ft. lot 30, Schultz's sub., e. Brooklyn ave	50 00
Lot 73, sub. of the Riopelle farm, n. of Gratiot, s. Wilkins	650 00
Triangular lot n. e. cor. 12th and Lafayette	500 00
N. 2.76 ft. of s. 194.85 ft. Walker & Cooper's sub. e. Concord ave	100 00
-	
Total\$,550 00

PART V.

COMPARISONS.

ı.	DEBT OF CITY, 1856-1901	TABLE 127
2.	ASSESSED VALUATION TAX LEVY AND TAX RATE, 1855-1901	TABLE 128
3	LENGTH AND COST, STREETS AND ALLEYS PAVED, 1849-1901,	TABLE 129
4.	LENGTH AND COST SEWERS, BUILT 1835-1901,	TABLE 130
5.	RECEIPTS MISCELLANEOUS ITEMS, 1890-1900,	TABLE 131

TABLE No. 127.

DEBT OF CITY, 1856-1901.

Showing the gross debt, resources of the Sinking Fund, and net debt of the City of Detroit, from 1856 to 1901, inclusive.

THESE FIGURES DO NOT INCLUDE THE WATER DEBT.

	DATE.	Gross Debt.	Sinking Fund.	Net Debt.	*Net Street Pav- ing Debt.	Total Debt.
1856,	March lst	\$ 809,486 18	\$ 9,849 00	\$ 299,587 18		••••
1857,	"	298,688 98	12,804 13	285,879 80		
1858,	••	296,543 73	20,478 45	276,070 28		
1859,	April 1st	295,968 78	88,040 23	262,928 50		
1800,		815.968 78	11 123 05	304,845 68		
1861,	"	815,968 73	18,968 85	297,000 38		
1862,	"	815,968 78	35,561 22	280.407 51		
1863,	"	839,968 78	52,808 25	287,160 48	ļ	
1864,	"	861,968 78	69,949 82	292,018 91		
1865,	"	507,768 78	87,186,68	420,682 05		
1866,	•	451,968 78	75,005 54	376,963 19		
1867,		494,168 78	64,844 58	429,824 15		
1868,	"	461,743 78	61,086 34	400 707 89		
1869,	"	583,943 78	67,146 59	516,796 14		
1870,		704,283 73	87,252 89	667,080 84		
1871,		818,721 58	23,593 58	790,128 00		
1872,		881,900 00	54,415 06	777,484 94		
1878,	Feb'y 1st	901,400 00	72,753 80	828,646 70		
1874,	"	989,400 00	81,084 87	858,365 18		
1875,	"	1,081,900 00	121,285 64	980,614 36	ļ	

DEBT OF CITY-Continued.

	DATE.	Gross Debt.	Sinking Fund.	Net Debt.	*Net Street Pav- ing Debt.	Total Debt.
1876, F	eb'y lst	\$ 1,079,900 00	\$ 185,826 17	\$ 894,073 83		
1877,	"	1,179,900 00	299,400 88	880,499 62		
1878,	"	1,262,400 00	384,856 86	877,543 14		
1879,	"	1,210,400 00	488,818 44	771,581 56		
18 8 0, J	une 30th	1,360,400 00	528,627 80	831,772 20		
1881,		1,094,400 00	479,442 32	614,957 68		
1882,		1,082,500 00	624,982 29	457,817 11		
1883,	"	1.068,000 00	819,768 14	248,231 86		
1884,		947,500 00	906,794 67	40,705 53		
1885,	"	850,500 00	838,238 28	12,281 72		
1886,	"	810,000 00	773,509 57	86,490 48		
1887,		1,280,000 00	776,988 66	503,015 84		
1888,	··	1,394,500 00	725,877 17	668,623 86		
1889,	••	1,338,500 00	698,475 55	640,024 45		
1890,	"	1,634,500 00	745,274 24	889,225 76		
1891,	"	1,912,500 00	793,699 60	1,118,800 40		ļ
1892,	"	2.856,500 00	913,517 14	1.942,982 86		
1893,	"	8,156,500 00	979,066 48	2,177,433 52		
1894,	"	4,461,000 00	1,101,705 99	3,359,294 01		
1895,	٠	4,825,000 00	1,223,203 51	3,601,796 49	\$ 357,869 49	\$ 3,959,655 98
1896,	٠٠	4,915,000 00	1,376,516 61	8,538,483 39	289,847 12	3,828,830 61
1897,	"	4,837,000 00	1,347,277 30	3,489,722 70	304,812 50	3,794,535 20
1898,	"	4,880,000 00	1,483,144 56	3,846,855 44	298,042 06	3,644,897 50
1899,	"	4,868,000 00	1,571,598 51	3,296,401 49	820,763 75	8,617,165 24
1900,	"	5,074,000 00	1,609,809 88	3,464,190 12	280,447 60	8,724,687 72
1901,		5,324,000 00	1,761,091 26	3,562,908 74	360,351 05	3,923,259 79

 $^{^{*}}$ Prior to 1895, street paving bonds were not considered as subject to the 2 per cent. debt limit restriction, and were not included in the statements of city debt.

TABLE No. 128.

ASSESSED VALUATION, TAX LEVY AND RATE OF TAXATION, 1855 TO 1901.

YEAR.	Real Estate.	Personal Property.	Total.	Tax Levy	Rate.
855			\$ 12,364,733 00	\$ 168,447 68	13 62 mills
856		0.0 505 401 00	13,757.583 00	164.542 83 167.880 26	11.96 mills
857	\$ 12,601.887 00	\$ 2,585,491 00	14,746,378 00		12.34 mills
858	14,282,506 00	2,771,651 00	16.379,671 00	201.748 41 207.179 08	13.14 mills
859	13,578,635 00 14,026,203 00	2,187,875 00	15,766,510 00 16,213,893 00	201,119 08	12 67 mills
860		2,187,690 00	15.288,259 00	192,922 89	12.62 mills
861	12,809,234 00 12,781,665 00	2,479,025 00 3,030,943 00	15,812,608 00	198,176 43	12.53 mills
862 863	13,058,849 00	3,963,125 00	17.021,974 00	245,057 20	14.39 mills
864	13,442,247 00	4.951,195 00	18.393,442 00	293,751 20	15,97 mille
865	14,444,330 00	5,600.500 00	20,044,830 00	363,400 13	18 13 mills
866	15.308,339 00	6,965,590 00	21,373,929 00	396,674 50	19.02 mills
867	16,723,177 00	6 573,665 00	23,296.842 00	470,838 76	20.21 mills
868	14,145,168 00	6,259,103 00	20,404,271 00	492,756 25	24 15 mills
869	16,291,726 00	6,644,127 00	22,935,853 00	713,094 64	31 13 mills
870 .	16,872,333 00	6,730,994 00	23,603.327 00	710,660 86	30.11 mills
871	15,803,361 00	6,549,430 00	22,352,791 00	918,207 27	41.08 mill
872	17,067,914 00	6,547,760 00	23,615,674 00	785,248 00	33.25 mill
873	19.085,160 00	8.006,485 00	27.091.645 00	875,695 76	32.32 mill
874	19,668,795 00	7.764.175 00	27,432,970 00	992,515 03	36.17 mills
875	20,325,875 00	7,448.755 00	27,741,630 00	1,104.515 34	39.80 mill
876	70,675,750 00	23.895,155 00	94,570,905 00		_10,27 mill
877	71,359,605 00	22,349,710 00	93 709,375 00	880,990 10	9.49 mill
878	67.023.100 00	20,842,585 00	87.865.685 00	794,009 15	9.03 mill
879	63,981,315 00	19.216.725 00	83,198,040 00	907,427 75	10.90 mill
880 .	64,556,085 00	19,867,705 00	34,363,790 00	1.004.634 69	11.83 mill
871	66,449,160 00	21 180 535 00	87,629,695 00	995,447 82	. 11.36 mill
882	68.822.150 00	26,069 252 00	94,891,107 00	1,194,108 49	12.09 mill
883	78,982,170 00	26,928,755 00	105,910,924 00	1,199,244 28	10.88 mill
884	82,793,115 00	27,928,880 00	110,721,995 00	1,326,500 31	11.44 mills
885	87,536,645 00	28.713.300 00	116 249 945 00	1,252,342 93	10.77 mill
886	100,020,991 00	33,427,589 00	133,448.580 00	1,444 214 58	10.82 mill
887	105.827,840 00	36,580,040 00	142,407.880 00	1,714,430 71	12.04 mill
888	112,740,300 00	39,558,840 00	152,299,140 00	1 995,002 67	13.10 mills
889	117,453,140 00	39,052,650 00	156,505,790 00	2,236.463 54	14.29 mill
890	123,391,610 00	38.436,960.00	161,828.570 00	√2 545,327 01	15.73 mill
891	136,026,640 00	39,423,670 00	175,450,310 00	2,934,555 00	, 16.78 mill
892	149,373,700 00	35,554,430 00	184,927,130 00	3,062.948 63	16.63 mill
893	158,051,900 00	41.627,310 00	199,679,210 00	3,015,817 72	15.16 mill:
894	161,283,710 00	47.867,510 00	209,151.220 00	3,285.162 22	15.77 mill
895	162,554,510 00	47,031,820 00 .	.209,586.330 00	V5,281,448 62	15.70 mill
896	164,761.160 00	44,680,940 00	209,642,100 00	3,253,300 76	115.59 mill
897	165,836,780 00	40,989,090 00	206,825,870 00	3,640,878 19	†17.68 mill
898	169,087,260 00	38,549,600 00	207,636,860 00	3.304,247 31	†15.99 mill
899	171,343,730 00	45,627,270 00	216,971.000 00	3,514,092 46	†16.33 mill
900	174,165,440 00	70,206,110 00	244,371,550 00	6,662,877 88	†15.40 mill
901	175,766,620 00	71,481,880 00	247,248,500 00	3,777,424 86	15.70 mill

Note—Previous to 1876 the assessment was made on a basis of 30 per cent. of the actual valuation, which accounts for the marked difference in the rate of taxation.



TAVERAGE TAX RATE.

TABLE No. 129.

NUMBER OF LINEAL FEET OF STREETS AND ALLEYS PAVED FROM 1849 TO JUNE 30, 1901, INCLUSIVE, AND THE COST OF THE SAME.

	STREETS.		ALLBYS.			
Year.	Length.	Cost.	Year.	Length.	Cost.	
1849	4.728.60	\$ 10,156 00	1849	420.00	\$ 420 00	
1850	3,192.41	14,597 55	1850	652.00	1,229 39	
1851	3,861.00	21.130 48	1851	180.00	427 85	
1852	1,962.98	15,287 08	1852	412.00	913 86	
1858	10,823.00	57,576 99	1858	····	· · · · · · · · · · · · · · · · · · ·	
1854	13,026 00	62,971 65	1854	3,130.00	8,565 10	
1855	9,392.00	60,460 14	1855	8,716.00	9,357 79	
1856	12,905 42	75,679 90	1856	1,754 00	4,674 14	
1857	.8,143 00	47,275 35	1857	200.00	369 7 5	
1858	 		1858	860 00	908 71	
1859	8,771.00	49,568 11	1859			
1860	9,922 00	38,565 50	1860	479.00	974 12	
1861	1,955-00	8,746 04	1861	•••		
1862		· • • • • • • • • • • • • • • • • • • •	1862	• • • • • • • • • • • • • • • • • • • •		
1863	1,166,00	2,250 50	1863	850 00	1.287 46	
1864	843.00	4,246 59	1864	1,083.00	6,714 84	
1865	2,944 00	87,922 67	1865	528.00	3,087 88	
1866	7,698.00	80,448 18	1866	280.00	1,482 52	
1867	14,209.00	186,511 59	1867	1,159.00	5,856 65	
1868	10,644.00	160,157 84	1868	744.00	3,851 99	
1869	12,853.00	139,361 10	1869	1,727.00	8,501 01	
1870	24,777.00	198,888 45	1870	1,756.00	6,528 00	

CITY CONTROLLER.

TABLE No. 129-Continued.

	STREETS.		ALLEYS.			
Year.	Length.	Cost.	Year.	Length.	Cost.	
1871	77,547.00	\$ 620,095 91	1871	5,411.00	\$ 22,575 18	
1872	10,170.00	71,569 89	1872	2,487.00	8,114 26	
1878	87,407.00	285,144 00	1878	4,739.00	18,595 81	
1874	28,705.76	197,950 88	1874	5,475 00	20 057 89	
1875	43,688.18	267,172 25	1875	933 00	3,469 45	
1876	42,055.58	160,171 65	1876	2,902.00	9,333 82	
1877	33,223.71	102,086 87	1877	936.09	1,865 07	
1878	47,140.23	177,272 14	1878	8,568.53	18,683 78	
1879	38,327.46	130,229 81	1879	3,269,71	6,829 20	
880	45,156.97	188,595 18	1880	1,847.02	4,770 90	
881	11,824.49	48,186 67	1881	2,246,48	5,418 04	
.882	22,727.18	92,327 72	1882	2,242.79	4,957 41	
883	81,783.77	125,447 97	1883	1,144.71	1,835 02	
884	13,980.04	56,405 98	1884	1,797.55	4,272 28	
885	12,581.91	44,215 84	1885			
886	15,482.01	85,292 75	1886	2,300.24	4,722 55	
887	47,028,13	230,825 94	1887	150.00	629 08	
.888	66,892.30	380,911 32	1888	908.00	8,075 07	
889	63,954.11	309,001 34	1889	2,008.00	3,386 00	
890	41,454.68	264,676 51	1890	3,690.80	8,410 28	
891	150,733.47	865,780 05	1891	3,216.49	7,442 95	
892	97,175.59	581,843 29	1892	6,613.48	14,993 98	
893	69,454.08	475.684 32	1893	1,647.04	4,438 99	
894	67,985.75	382,783 15	1894	3,696.09	7,569 81	
895	56,999.94	246,650 39	1895	1,055.11	1,818 07	
896	56,681.01	280,782 24	1896	1,229.00	2,215 61	
897	71,653,24	301,090 37	1897	1,312.53	2,395 78	
898	57,880.84	261,715 65	1898	263.23	1,272 26	
899	43,571.26	196,695 54	1899	483.80	1,958 08	
900	59,295.14	297,949 92	1900	86.44	868 26	

TABLE No. 130.

LENGTH AND COST OF PUBLIC AND LATERAL SEWERS BUILT FROM 1835 TO JUNE 30, 1901.

	PUBLI	c sewers.	LATERAL SEWERS.			
	MILES.	FEET.	Cost.	MILES.	FEET.	Cost.
1885 to 1873	43	21	\$1,200,124 27	49	3,930	\$ 328,010 60
1874	4	1,829	156,099 21	7	5,036	45,813 94
1875	6	2,806	191.948 17	8	3,255	37,742 89
1876	7	4,431	147,808 27	8	2,108	26,899 11
1877	6	5,258	101,699 75	4	766	11,856 97
1878	2	637	45,144 00	7	88454	18,433 30
1879	1	3,508	22,820 66	4	5,252	11,838 92
1880	2	1,949	41,543 59	8	1,9281/2	12,315 82
1881	1	2,198	41,886 84	4	1,161	21,561 08
1882	2	2,150	63,464 21	6	2.250	31,973 18
1883	2	8;610	81,712 11	7	1,319	87,130 48
1884	2	8.994	30,014 15	8	3.177	31,446 55
1885	3	8,9741/2	103,710 18	7	2,030	80,484 04
1886	6	1,978	138,354 48	9	5,206	88,330 57
1887	4	5011/2	74,117 82	15	2,110	65,289 11
1888	8	4,756	197,790 12	9	2,240	41,238 81
1889	7	4,451	243,937 90	10	1,729	44,650 57
1890	91/4		817.526 38	11,479		54,080 60
1891	9	1,212	228,421 72	21.55		123,197 07
1892	6.68		182,573 57	14.31		100,888 08
1893	4.28		97,287 34	27.8		218,111 33
1894	4.83		153,539 09	12.428		71,164 63
1895	2.88		84,247 12	16.905		98,667 58
1896	2.67		95,746 38	12.011		63,638 92
1897	4.75		116,366 72	12,04		75,418 94
1898	3.58		60,221 86	8.53		87,096 80
1899	.98		18,610 75	8.59		52,711 68
1900	3.16		111,669 39	8.28		51,818 59

TABLE RECEIPTS, MISCELLANEOUS

	1891	1892	1893	1894
Interest on Bank Balances	\$ 30,545 74	\$ 81,124 48	\$ 65,316 75	\$ 69,657 43
Earnings of Sinking Fund	23,890 50	36,028 82	55,169 18	38,066 33
Liquor Taxes	296,117 34	221,601 49	224,805 57	229,445 93
Earnings of House of Correction	25,000 00	29,228 36	40,000 00	45,000 00
Licenses	15,110 61	16,850 92	19,126 06	13,254 13
Fines, Recorder's Court	1,821 05	4,937 00	4,995 00	3,304 75
Fines, Police Court	•••••			649 00
Market Rents	9,569 05	2,724 35	6,127 30	6,560 30
Weighmaster's Fees	2,850 80	3,198 70	4,150 86	4,071 10
Bath House, Belle Isle	· · · · · · · · · · · · · · · · · · ·		1,075 00	2,176 90
Park Wagons, Belle Isle	5,196 90	3,769 00	4,548 50	3,799 15
Privileges, Belle Isle	5,340 00	150 00	6,325 00	5,267 50
Franchises	12,530 77	20,303 33	3,132_14	84,495 33

No. 131. ITEMS, 1891-1900.

1895	1896	1897	1896	1899	1900
\$ 54,94 8 55	\$ 51,485 78	\$ 50,928 20	\$ 40,989 27	\$ 41,832 22	\$ 43,402 1
47,798 47	50,740 68	50,178 84	58,509 51	62,097 58	62,199 2
244,501 21	281,259 97	225,501 49	248,915 09	261,659 68	273,889 3
85,000 00	28,500 00	18,700 00	48,150 00	60,000 00	35,000 0
15,449 85	14,792 75	16,196 70	29,234 58	21,879 78	16,520 3
5,054 00	4,491 25	5,552 50	4,891 00	2,162 35	749 5
12,740 50	2,772 00	4,674 27	4,651 00	6,278 25	6,570 0
7.262 10	7,720 00	7,887 30	8,580 25	7,756 00	8,459 0
2,473 60	8,654 60	3,806 85	2,680 10	2,181 70	2,994 6
1,445 85	1,562 15	1,282 55	1,808 85	1,419 80	2,164 5
6,448 40	6,385 78	5,986 95	7,830 28	8,987 61	10,071 8
5,897 81	5,757 49 5 ≃	5 ,6 84 81	5,4 6 8 24	10,115 87	4,461 6
19,278 89	17,500 30	21,915 08	23,364 51	25,822 00	28,124 5

PART VI.

MISCELLANEOUS TABLES.

1.	CORPORATE REAL ESTATE,	-	TABLE	132
2.	REAL ESTATE EXEMPT FROM TAXATION,	-	TABLE	133
3.	LEASES GIVEN BY CITY, -		TABLE	134

TABLE NO. 122

CORPORATE REAL ESTATE OF THE CITY OF DETROIT.

Description of Property.	Value.
City Hall\$	2,180,430 00
Municipal Court and Health Department	71,900 00
Pest House (on leased ground)	8,000 00
Eastern Markets	23 5,000 00
Western Market	80,000 00
Cass Market and G. A. R. Memorial Bldg	60,000 (0
Western Yard, Board of Public Works	34,850 00
House of Correction	245,000 00
Old Cemetery, Russell street	63,000 00
Hospital Grounds, Grosse Pointe	22,000 00
Public Library	373,000 00
Belle Isle Approach	75,000 00
Belle Isle Bridge	800,000 00
Belle Isle Park	3,000,000 00
West Grand Circus Park	900,000 00
East Grand Circus Park	700,000 00
Cadillac Park	375,000 00
Campau Park	11,000 00
Campus Martius, triangular lot	210,000 00
Capitol Park	200,000 00
Cass Park	165,000 00
Centre Park	9,000 00
Clark Park	245,000 00
Clinton Park	32,000 00
Crawford Park	20,000 00
Elton Park	20,000 00
Macomb Park	7,000 00
Owen Park	60,000 00

Palmer Park	\$ 140,000	00
Perrien Park	30,000	00
Stanton Park	8,000	00
Volgt Park	45,000	00
West Park	78,000	00
Lot, Twelfth and Lafayette	500	00
Vacant lot, House of Correction	650	00
Other vacant lots and strips of land	400	00
Board of Education	3,562,065	00
Metropolitan Police Commission	292,140	00
Fire Commission	610,090	00
Public Lighting Commission	232,080	00
Water Commission	1,146,310	00
Makal (P1E 707 41E	

TABLE NO. 133,

FROM TAXATION FOR THE YEAR 1901.

102,290

37.350

50,960

\$ 4,257,710

\$ 197,270

507,800

292,140

610,090

Fire Department

Miscellaneous churches

Totals\$ 1,540,410

	-		
Water Department	412,060	734,250	1,146,810
Public Lighting Department	63,120	168,960	232,080
Board of Education	647,370	2,913,395	3,560,765
Parks	6,230,000	100,000	6,330,000
Public Library	228,000	145,000	378,000
City property not controlled by Commis-			
sions or Boards	2,073,030	878,700	2,951,730
Belle Isle Bridge	300,000		300,000
	19,150,740	\$ 5,645,375	\$15,796,115
Totals			
Church and other real estate under the	he contro	of religious	denomina-
·	he control	of religious	denomina-
Church and other real estate under the		of religious \$ 1,882,450	denomina- \$ 2,445,180
Church and other real estate under the tions:			
Church and other real estate under the tions: Catholic	562,730	\$ 1,882,450	\$ 2,445,180 834,900
Church and other real estate under the tions: Catholic	562,730 177,400	\$ 1,882,450 657,500	\$ 2,445,180
Church and other real estate under the tions: Catholic \$ Presbyterian \$ Episcopal	562,730 177,400 310,700	\$ 1,882,450 657,500 473,800	\$ 2,445,180 834,900 784,500
Church and other real estate under titions: Catholic	562,730 177,400 310,700 75,010	\$ 1,882,450 657,500 473,800 281,760	\$ 2,445,180 834,900 784,500 356,770
Church and other real estate under titions: Catholic	562,730 177,400 310,700 75,010 160,880	\$ 1,882,450 657,500 473,800 281,760 316,950	\$ 2,445,180 834,900 784,500 356,770 477,830
Church and other real estate under titions: Catholic \$ Presbyterian \$ Episcopal \$ Evangelical Lutheran \$ Methodist Episcopal \$ Baptist	562,730 177,400 310,700 75,010 160,880 84,450	\$ 1,882,450 657,500 473,800 281,760 316,950 256,500	\$ 2,445,180 834,900 784,500 356,770 477,830 840,950
Church and other real estate under the tions: Catholic \$ Presbyterian \$ Episcopal \$ Evangelical Lutheran \$ Methodist Episcopal \$ Baptist \$ Congregational	562,730 177,400 310,700 75,010 160,880 84,450 64,660	\$ 1,882,450 657,500 473,800 281,760 316,950 256,500 182,000	\$ 2,445,180 834,900 784,500 356,770 477,830 840,950 246,650
Church and other real estate under the tions: Catholic \$ Presbyterian \$ Episcopal \$ Evangelical Lutheran \$ Methodist Episcopal \$ Baptist \$ Congregational \$ Unitarian \$	562,730 177,400 310,700 75,010 160,880 84,450 64,650 22,000	\$ 1,882,450 667,500 473,800 281,760 316,950 256,500 182,000 70,000	\$ 2,445,180 834,900 784,500 356,770 477,830 840,950 246,650 92,000

88,300

\$ 5,798,120

Miscellaneous:

Railroads\$	4,964,270	\$ 1,708,000	\$ 6,672,270
United States	822,500	1,175,000	1,997,500
Cemeteries	538,230	1,000	539,239
Hospitals and asylums	73,160	272,000	345,160
Charitable and Benevolent Associations	95,760	237,000	332,760
Art Museum	25,000	125.000	150,000
Private schools	10,250	50,000	60,250
Young Men's Christian Association	24,00 0	40.00)	61,000
County of Wayne	526,500	1,675,000	2,201,500
Detroit Medical College	7,690	45,0 0ύ	52,690
State of Michigan	35,170	5,000	40,170
Exempt from taxation on account of pov-			
erty	5,320	3,950	9,270
	7,127,850	\$ 5,336,950	\$12,464,800
Grand Totals	18,819,000	\$15,240,035	\$34,059,035

TABLE No. 134.

LEASES GIVEN BY AND ANNUAL RENTS DUE THE CITY OF DETROIT.

DATE.	To Whom Given.	PROPERTY LEASED.	TIME.	RATE PER Annum.	Expires.
Aug. 9, 1872	Board of Education	Public Library Grounds	50 yrs.	\$ 100	Aug. 9, 1922
Nov. 1, 1887	Fire Commission	Old Cemetery, Russell St		1 00	
Dec. 1, 1899	Augusta Schultz	Hospital Grounds, G. Pt.	3 yrs.	91 68	Dec. 1, 1902
April 1, 1899	Red Star Line	Dock foot Griswold St	1 yr	100 00	April 1, 1900
. 1, 1896	County of Wayne	Offices in City Hall	3 yrs.	15,600 00	j •
Jul y 24, 1900	William T. Bowen	Alley in rear of n. 24 feet of lots 64 to 69, inclusive Desnoyer's sub. of n. e. ½ of s. w. ½ of P. C. 19, Beaufait Farm	3 yrs.	\$1 per term	July 24, 1908
Aug. 20, 1900	Frederick M. Sibley	Alley in rear lots 59, 60 and 61, H. Russell's sub. of south part of block 4, Beaufait Farm, P. C. 19		\$1 per term	Aug. 20, 1908

^{*}When offices are vacated.

PART VII.

ESTIMATES, APPROPRIATIONS, ASSESSED VALUATION AND TAX RATE, 1901.

- 1. ESTIMATES.
- 2. APPROPRIATIONS.

TABLE 135

ANNUAL ESTIMATES

FOR THE

Fiscal Year, Ending June 30, 1902.

To the Honorable, the Common Council:

Gentlemen—As provided by the City Charter, Chapter VIII., Section 1, page 85, I herewith transmit to your honorable body the estimated expenses of the several municipal departments of the government of the City of Detroit for the fiscal year ending June 30th, 1902, as they have been submitted to me by the said departments.

These estimates appear to be based upon the idea that the City of Detroit has a settled policy for each of the Commissions or Boards, viz: to supply and gratify the desires, and, in some instances, the demands of the people for improvements in these departments, they arguing that this is a "great, rich city" and can well afford an appropriation for a school building, a polica station, an engine house or some other special improvement. This would be true if the city had but one department to provide for, just as the head of a family might be able to gratify all the desires of one petted child, but when a dozen of equally loved and petted children make equal claims, he finds it impossible to gratify all. I know that this "irrepressible conflict" is on; the people, on the one hand, demanding more of the government, and those owning the property and having the bills to pay in taxes wanting less. The administration of the City of Detroit to-day, measured by the thoughts and aspirations of the country, fifty, or even twenty-five years ago, would have been regarded as extravagant and its conditions luxurious, but what were luxuries enjoyed by the few in those times are but the common-place, every-day conveniences and comforts of modern civilized life.

In looking over these estimates I cannot but feel that under some influence they have been unduly increased and are unwarrantably large, aggregating the enormus sum of \$6.674,029 73. This is an increase of \$875,793 25 over



last year's estimates (all supplementals included), and of \$1,473,636 06 over the estimates of the preceding year, and equals \$23 55 for every man, woman and child in the City of Detroit. That it should be estimated to cost this amount per annum for municipal government in this city seems beyond comprehension; as a matter of fact, the figures are out of all reason.

Is it not possible that we are building our school houses, police stations and other public buildings on a scale not required by the needs of the service? I know full well the argument used by each department, that Detroit is a great, wealthy city, and that we should not reflect on her by erecting cheap or plain buildings; and further, that all the people in the vicinity of the new improvement want something that will be an "ornament" to their part of the town. Well, if the people want "ornaments," and the Boards estimate for "ornaments," and the Common Council and Board of Estimates approve them, there is nothing left but to put your hands in your pockets and pay the bill.

I believe that very much better results would be obtained if some of the responsibility of pruning the estimates was assumed by each department when preparing them, instead of throwing all upon the Common Council and Board of Estimates, who have only a limited time for their consideration. Some of the departments have fallen into the habit of estimating at least double what they have had or expect to get, knowing full well that their estimates will be reduced 40 to 60 per cent. A good share of this should have been cut out before it was ever presented.

I note in these estimates large amounts that are there by request of the Common Council, the Board of Public Works alone containing \$858,889 of estimates of this character, the request for every one of which are undoubtedly backed up by the people in the vicinity of the improvement requested. The exercise of a claim, judicial inquiry into the necessity for each improvement submitted will, I am sure, secure facts that will warrant a large cut therein.

Referring to those items in the estimates which are for permanent improvements, I desire to reiterate what I have said before on this subject, and that is, that all appropriations for improvements of a permanent character, such as the purchase of real estate and the erection thereon of buildings, etc., should be made by issue of bonds and the cost of the improvement equitably distributed over a space of thirty years. There are in this year's estimates about \$1,700,000 of permanent improvements, of which at least \$1,300,000 are of such a character as to warrant an issue of bonds, if any appropriations are made for them. At the present time bonds can only be issued for public buildings and public schools, but if the several bills which are now before the legislature pass, before your labors are completed, it will



be possible, in addition to these two items, to issue bonds for public sewers, police stations, engine houses and park and boulevard improvements. For every one hundred thousand dollars of bonds issued of this character it will be necessary to raise annually during the term of the bonds (30 years) the interest \$3,500, and for a sinking fund \$2,500, or a total of \$6,000. Under this plan, \$500,000 of permanent improvements could be made at a cost of \$30,000 per annum for 30 years, and each generation who has enjoyed the use and benefit of the improvement will have contributed its share of the expense.

Another criticism I have to make on these estimates is the indiscriminate mixing of items of maintenance in the improvement classification, and vice versa; this is particularly noticeable in the estimates of the Park and Boulevard Commission and the Metropolitan Police Commission, the latter being classified as "supplementals." In the former there are numerous items of "repairs," "painting," etc., in the "improvements" classification, which should be charged to maintenance.

Municipal accounts, to be of any value from a statistical point of view, must be accurately classified, and continued in the same form from year to year, and the line between maintenance and improvements cannot be too sharply drawn.

Referring to the estimates for those funds over which the Controller has jurisdiction, I would state that the increase in the Interest Fund is occasioned largely by there being no estimated cash balance as there was last year of \$50,000. The General Fund is \$71,775 65 less than last year, though I have included therein estimates for several items which it has been customary for some time to pay from the Contingent Fund, in a rather irregular way.

The item of \$75,668 87 for the Street Opening Fund is nearly all obligatory, representing the portion to be paid by the city of awards on which interest begins in the near future.

In compliance with resolutions of your honorable body, I have included in the Public Building Fund an estimate of \$250,000 for remodeling the City Hall, and one of \$10,000 for the purpose of constructing sunken lavatories and toilet buildings in the center of the city.

The tables of aggregate and detailed appropriations for and expenditures of all the departments since 1880 I have continued and included with the compilation of estimates for 1901, believing that the information therein contained will be of value to you, not only while considering the estimates this year, but as a reference during the entire year to come.

Of the liquor moneys, so-called, there will be available for the reduction of taxation this year not less than \$200,000; this amount, I believe, is largely in excess of any that has been so applied heretofore.

In conclusion, gentlemen, permit me to say that in the difficult task before you and the Board of Estimates of reducing these estimates three millions of dollars (which amount they will have to be cut if the tax is not materially raised), my office and myself are at your service for any information in our power to furnish.

Respectfully submitted,

F. A. BLADES,

Controller.

ESTIMATES FOR 1901.

Funds of the Controller-

	Amour		Total.
Interest Fund\$	216,580	00	
General Fund	180,665	50	
Garbage Fund	65,000	60	
Street Opening Fund	75,668	87	
Fire Department Retired and Pension Fund	9,544	80	
Police Pension Fund	1,395	27	
Public Entertainment Fund	2,000	00	
· -		- \$	550,854 44

Funds of the Board of Public Works-

General Road Fund\$ 40	6,519	00
Repaving Fund	4,205	00
Public Sewer Fund 21	6,966	00
Public Building Fund	4,500	00
Board of Public Works General Fund 4	4,854	00
Road District Fund, No. 1 2	6,000	00
Road District Fund, No. 2 2	8,000	00
Road District Fund, No. 3 1	0,000	00
Road District Fund, No. 4 1	7,000	00
Road District Fund, No. 5	9,000	00
Road District Fund No. 6	9,000	00
Road District Fund, No. 7	8,000	00
Road District Fund, No. 8	8,000	00
Road District Fund No. 9	8,000	00
Road District Fund, No. 10	7,000	00
Road District Fund, No. 11	7,000	00
Road District Fund, No. 12	7,000	00
Road District Fund, No. 13	7,000	00
Road District Fund, No. 14	7,000	00
Road District Fund, No. 15	7,000	00

Road District Fund, No. 16	
Road District Fund, No. 17 8,000 00	
Belle Isle Bridge Fund 9,750 00	•
Western Market Fund	
Eastern Market Fund	\$2,158,133 32
	42,130,138 SE
Board of Health-	
Public Health Fund	\$ 35,745 00
Recorder's Court-	
Recorder's Court Fund	14,000 00
Poor Commission—	
Poor Commission Fund	56,000 00
Metropolitan Police Commission—	
Metropolitan Police Fund	630,761 50
Superanuated Police Fund	5,550 00
. Board of Water Commissioners—	
Water Commission Fund	75,000 00
Board of Library Commissioners—	
Public Library Fund	69,159 85
1 2000 200 - 7 2 000	w,255 w
Board of Education—	
Board of Education Fund	. 1,647,868 36
Fire Commission—	
Fire Commission Fund	762,710 50
Dublic Tiebbie - Commission	
Public Lighting Commission— Public Lighting Fund	213,353 76
A GUILL SABARRAS & GILG	220,000 10
Park and Boulevard Commission—	
Park and Boulevard Fund	454,885 00
Total estimates	\$6,674,029 73

ESTIMATES IN DETAIL.

INTEREST FUND.

The total debt of the city for which interest must be provide	ed is a fol-
lows:	
Outstanding city bonds bearing 4 per cent interest	4,268,000 00
Outstanding city bonds bearing 3.65 per cent interest	100,000 00
Outstanding city bonds bearing 3½ per cent interest	966,000 00
Total bonds outstanding	\$5,324,000 00
One year's interest on \$4,268,000, at 4 per cent	170,720 00
One year's interest on \$100,000, at 3.65 per cent	3,650 00
One year' 'uterest on \$956,000, at 31/2 per cent	33,460 00
One year's interest at 31/2 per cent on \$250,000 Public School bonds,	
issued July 1st, 1900, for which no appropriation was made	8,750 00
Total	\$216,580 00

GENERAL FUND.

Common	Council—

Thirty-four Aldermen at \$1,200 each\$ Messenger boy, \$3 per session, 52 sessions	40,800 00 156 06 \$	40.958 00
Mayor's Office—	•	,
•		
Mayor	1,200 00	
Mayor's Secretary	2,000 00	
Stenographer	1,200 00	
Messenger, \$40 per month	480 00	4,880 00
Controller's Office—		
Controller	3,000 00	
Deputy Controller	2,000 00	
Chief Clerk	1,320 00	
Bookkeeper	1,320 00	
Entry Clerk	1,210 00	
Two clerks, \$1,034 each	2,068 00 480 00	11,898 00
City Clerk's Office-		
City Clerk	3,500 00	
Deputy City Clerk	2,000 00	
Chief Clerk	1,500 00	
Three clerks, \$1,200 each	3,600 00	
Messenger, \$25 per month	300 00	10,900 00
City Treasurer's Office-		
City Treasurer	4,000 00	
Deputy City Treasurer	2,000 00	
Paymaster	1,500 00	•
Bookkeeper	1,320 00	
Chief Clerk, back tax department	1,320 00	
Five clerks, \$1,034 each	5,170 00	
One Assistant Clerk, \$40 per month	480 00	15,790 00

Receiver of Taxes' Office-

Receiver of Taxes Assistant Receiver of Taxes Bookkeeper Special Assessment Clerk Chief Clerk Nine regular clerks, \$1,034 each Extra clerical help during tax-paying months	3,000 00 2,000 00 1,320 00 1,320 00 1,200 00 9,306 00 6,000 00	
Collectors of personal taxes	3,000 00	
Messenger	300 00	27,446 00
Board of Assessors—		
Three Assessors, each \$3,000	9,000 00	
Three Assistant Assessors, each \$1,500	4,500 00	
One Chief Clerk	2,000 00	
One Description Clerk	1,500 00	
One Draughtsman	1,034 00	•
One Map Clerk	1,034 00	
One Tax Commission Clerk	1,034 00	
One Record Clerk	1,034 00	
Thirteen Clerks, each \$1,034	13,442 00	
Overtime work, May and June, preparing tax rolls	950 00	35,528 00
Law Department—		
Corporation Counsel	5,000 do	
Chief Assistant Corporation Counsel	3,000 00	
One Assistant Corporation Counsel	2,590 00	
Three Assistant Corporation Counsels, each \$1,800	5,400 00	
One Chief Clerk	1,200 00	
One Clerk	1,000 00	
One Stenographer	600 00	
One Street Opening Clerk	1,034 00	

Chief Accountant's Office-

Chief Accountant

2,250 00

Office of Secretary Common Council Committees—		
Secretary	1,200 00	
Messenger	800 00	1,500 00
Store and Record Rooms-		
Storekeeper	1,084 00	
Clerk of record room, 313 days at \$3 30	1,032 90	2,066 90
Board of Building Inspectors—		
Three Building Inspectors, each \$1,200		8,600 00
Boiler Inspectors' Office-		
Boiler Inspector	1,600 00	
Two Assistants, each \$1,000	2,000 00	
One clerk	1,034 00	4,684 00
City Physician's Office—		
Five City Physicians, each \$1,200		6,000 00
Officers of Police Court—	٠	
Two Police Justices, each \$3,000	6,000 00	
Clerk of Court	1,800 00	
Three Deputy Clerks, each \$1,200	3,600 00	11,400 00
Market Clerks-		
Clerk of Market, Eastern District	900 00	
One Assistant Market Clerk, Eastern District, 313 days		
at \$2 (as per resolution of Common Council, Feb. 5,		
1901)	626 00	
Clerk of Market, Western District	900 00	2,426 00
City Hay Scales—		
Two Weighmasters, each \$900		1,800 00
City Pounds and Wood Markets-		
Two Poundmasters, each \$900		1,800 00



Engineer's Room, City Hall-		
Engineer, City Hall	1,200 00	
One assistant, 365 days at \$2.75 per day	1,008 75	
One assistant, Oct. 1 to May 15, 227 days, at \$2 75	624 25	•
One night engineer, Nov. 1 to May 1, 181 nights, at \$2 00	862 00	3,190 Ou
Janitors of and Cleaning City Hall-		
One Janitor	1,084 00	
One Assistant Janitor, 313 days at \$2 50	782 50	
One Assistant anitor, attic, 313 days at \$2	626 00	
One Assistant Janitor, basement, 313 days at \$2	626 00	
One Janitor, men's toilet in basement, 365 days	700 00	
One Assistant Janitor, men's toilet, 2d floor, and assist-		
ant to elevator conductors, 313 days at \$2 50	782 50	
One Assistant Janitor, men's tollet, 3d floor, 313 days at		
\$1 50	469 50	
One Janitress, ladies' toilet, basement, 365 days at \$1 50	547 50	
One Janitress, ladies' toilet, 2d floor, 313 days at \$1 50	469 50	
Five laborers, each 313 days at \$1 50	2,347 50	8,385 00
City Hall Elevators—		•
Two conductors at \$720.	•	1,440 00
Municipal Court Building-		
Municipal Court Building— One engineer	1,000 00	
	1,000 00 982 26	
One engineer	•	
One engineer	982 25	
One engineer One assistant engineer, 339 days at \$2 75 One night engineer, Nov. 1 to May 1, 181 nights at \$2	982 25 362 00	
One engineer One assistant engineer, 339 days at \$2.75 One night engineer, Nov. 1 to May 1, 181 nights at \$2 One elevator conductor	982 25 362 00 720 00	
One engineer One assistant engineer, 339 days at \$2.75 One night engineer, Nov. 1 to May 1, 181 nights at \$2 One elevator conductor One janitor	982 25 362 00 720 00 1,034 06	6,239 25
One engineer One assistant engineer, 339 days at \$2.75 One night engineer, Nov. 1 to May 1, 181 nights at \$2 One elevator conductor One janitor One assistant janitor, 313 days at \$2.50	982 25 362 00 720 00 1,034 UU 782 50	6,239 25
One engineer One assistant engineer, 339 days at \$2.75 One night engineer, Nov. 1 to May 1, 181 nights at \$2 One elevator conductor One janitor One assistant janitor, 313 days at \$2.50 Three laborers, each, 313 days at \$1.50	982 25 362 00 720 00 1,034 UU 782 50	6,239 25
One engineer One assistant engineer, 339 days at \$2.75 One night engineer, Nov. 1 to May 1, 181 nights at \$2 One elevator conductor One janitor One assistant janitor, 313 days at \$2.50 Three laborers, each, 313 days at \$1.50 Vacations—	982 25 362 00 720 00 1,034 UU 782 50	6,239 2 5
One engineer One assistant engineer, 339 days at \$2.75 One night engineer, Nov. 1 to May 1, 181 nights at \$2 One elevator conductor One janitor One assistant janitor, 313 days at \$2.50 Three laborers, each, 313 days at \$1.50 Vacations— To provide substitutes so as to give each of the follow-	982 25 362 00 720 00 1,034 UU 782 50	6,239 2 5

except head janitor; engineer, assistant engineer, elevator conductor, and assistant janitors, M. C. Building.....

Board of Estimates-

Twenty meetings of Board at	195 00	3,900 00
Total salaries		\$ 227,795 50
Dog Pound—		
Two drivers of dog wagons, each \$600\$	1,200 00	
Impounding dogs	1,200 00	
Food, supplies and fuel	200 00	
Repairs to pound	3 50 00	
One new dog wagon	150 00	
•		
Total		3,100 00
,		

REGISTRATION AND ELECTION EXPENSES.

(Fall Election, 1901.)

Registration—	
360 registrars, 4 days at \$4\$	5,760 00
Supplies	300 00
Election—	
720 inspectors at \$8	5,760 00
240 clerks at \$8	1,920 00
120 gatekeepers at \$5	600 00
120 canvassers at \$8	960 00
120 election lists of electors	360 00
120 duplicate registration lists of electors	360 00
Advertising	400 00
Posting notices	125 00
Maps	75 00
Election supplies	309 00
Tally sheets, poll books, etc	750 00
Moving and preparing ballot boxes	300 00
Election Commission	2,500 00
Printing	250 00

Caucus Purposes—		
Furnishing stationery, ballot boxes, etc	400 0)
Election Houses—		
Putting up, taking down and repairing election houses	2,000 0)
56 new election houses	12,000 0)
Truck for hauling same	150 0) -
Total fall election		\$ 35, 270 0 0
Supplemental Estamate No. 1—		
Changes which may of necessity have to be made in elect		
will add six new districts, for which the following mitted:	g estim	ate is sub-
(Fall Election, 1901.)		
Registration—		
18 registrars, 4 days each, at \$4\$	288 0)
Supplies	20 0	•
Election—		
36 inspectors at 8	288 00)
12 clerks, at \$8	96 00)
6 gatekeepers, at \$5	30 00)
6 canvassers, at \$8	48 00)
6 registers of electors	18 00)
6 election lists of electors	18 00)
6 duplicate election lists of electors	18 00	•
Election supplies	25 00)
Caucus Purposes—		
Stationery, ballot boxes, printing, etc	25 00)
Election houses, 6 at \$215	1,290 00	•

Total Supplemental Estimate No. 1.....

Current Expenses-

Cleaning Market Grounds\$	810 00
Ice for Bagley Fountain	350 00
Ice for City Hall and M. C. Building	300 00
Fuel for City Hall	3,000 00
Fuel for Municipal Court Building	1,500 00
Postage	1,600 00
Posting notices of tax sales	150 00
New furniture, carpets, etc., city offices	1,200 00
Hardware, locks, keys, etc	100 00
City Directories	150 00
Badges and license tags	700 00
Maps for use of city officials	250 00
Cleaning and repairing hay scales	100 00
Fuel for hay markets	50 00
Flags, awnings and repairs to same	150 00
Care of City Hall and other clocks	250 00
Supplies for janitors, engineers and city officers	750 00
Rent of strong box	225 00
Telegraph and messenger service	275 00
Transportation, Boiler Inspector	260 0 0
Hauling rubbish from City Hall and Municipal Court	
Building	250 00
Laundry and toilet service, City Hall and M. C. Build-	
ing	450 00
Transportation, Assessors	500 00
Transportation, other city officials	400 00
Rubber stamps	150 00
Disinfectants, City Hall and Municipal Court Building	175 00
Insurance on elevators	120 00
Cleaning carpets	50 00
Gas lighting, City Hall and Municipal Court Building	150 00
Rent of Corporation Counsel's office (per lease)	1,716 00
Water for City Hall and M. C. Building	1,000 00
Water for charitable institutions	1,000 00
Painting and repairing life preservers and boxes	250 00
Use of Detroit Bar Library	55 00
Miscellaneous	700 00

Total current expenses.....

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Authorized by an Act of the Legislature, approved June 1st, 1899	Museum of Art—				
PRINTING AND STATIONERY. Official Printing— Council proceedings, notices of tax and special assessment sales and other notices	Authorized by an Act of the Legislature, approved June				
Official Printing— Council proceedings, notices of tax and special assessment sales and other notices	1mt, 1899				12,000 00
Council proceedings, notices of tax and special assessment sales and other notices	PRINTING AND STATIONERY.				
Ment sales and other notices \$ 15,000 00	Official Printing—				
Legal Printing—	Council proceedings, notices of tax and special assess-				
Such matters as are required by law to be published in other than the official paper	ment sales and other notices\$	15,000	00		
other than the official paper. 1,000 00 Printing in Foreign Languages— 1,000 00 Limited by law to \$8,000 annually. 3,000 00 Job Printing— 4,500 00 Official reports, special blanks, etc. 4,500 00 Newspapers for official use. 1,200 00 Stationery, bookbinding, etc. 6,500 00 Total printing and stationery. \$ 31,200 00 Resources— Estimated balance July 1st. \$ 50,000 00 Estimated income from rents, licenses, franchises, etc. 100,000 00 Total. \$ 150,000 00 Recapitulation— \$ 150,000 00 Fall election, 1901. 35,270 00 Fall election—Supplemental Estiamte No. 2,164 00 Current expenses 19,136 00 Museum of Art. 12,000 00 Printing and stationery 31,200 00 Total estimates \$ 330,665 50	Legal Printing—				
Printing in Foreign Languages 2,000 00	Such matters as are required by law to be published in				
Job Printing— 4,500 00 Newspapers for official use		1,000	00		
Official reports, special blanks, etc. 4,500 00 Newspapers for official use. 1,200 00 Stationery, bookbinding, etc. 6,500 00 Total printing and stationery. \$ 31,200 00 Resources— Estimated balance July 1st. \$ 50,000 00 Estimated income from rents, licenses, franchises, etc. 100,000 00 Total. \$ 150,000 00 Recapitulation— \$ 227,796 50 Dog pound 3,100 00 Fall election, 1901. 35,270 00 Fall election—Supplemental Estiante No. 1 2,164 00 Current expenses 19,136 00 Museum of Art 12,000 00 Printing and stationery 31,200 00 Total estimates \$ 330,665 50	Limited by law to \$8,000 annually	3,000	00		
Newspapers for official use 1,200 00 Stationery, bookbinding, etc. 6,500 00 Total printing and stationery. \$ 31,200 00 Resources— Estimated balance July 1st. \$ 50,000 00 Estimated income from rents, licenses, franchises, etc. 100,000 00 Total. \$ 150,000 00 Recapitulation— \$ 227,795 50 Dog pound 3,100 00 Fall election, 1901. 35,270 00 Fall election—Supplemental Estiamte No. 1. 2,164 00 Current expenses 19,136 00 Museum of Art. 12,000 00 Printing and stationery. 31,200 00 Total estimates \$ 330,665 50	Job Printing—				
Stationery, bookbinding, etc. 6,500 00 Total printing and stationery. \$ 31,200 00 Resources— Estimated balance July 1st. \$ 50,000 00 Estimated income from rents, licenses, franchises, etc. 100,000 00 Total. \$ 150,000 00 Recapitulation— \$ 227,795 50 Dog pound 3,100 00 Fall election, 1901. 35,270 00 Fall election—Supplemental Estiamte No. 1. 2,164 00 Current expenses 19,136 00 Museum of Art. 12,000 00 Printing and stationery. 31,200 00 Total estimates \$ 330,665 50	Official reports, special blanks, etc	4,500	00		
Total printing and stationery. \$ 31,200 00 Resources— Estimated balance July 1st. \$ 50,000 00 Estimated income from rents, licenses, franchises, etc. 100,000 00 Total. \$ 150,000 00 Recapitulation— Salaries \$ 227,796 50 Dog pound \$ 3,100 00 Fall election, 1901. \$ 35,270 00 Fall election—Supplemental Estiamte No. 1. 2,164 00 Current expenses 19,136 00 Museum of Art. 12,000 00 Printing and stationery. \$ 330,665 50	Newspapers for official use	1,200	00		
Resources— Estimated balance July 1st	Stationery, bookbinding, etc	6,500	00		
Estimated balance July 1st	Total printing and stationery		_	\$	81,200 00
Estimated income from rents, licenses, franchises, etc 100,000 00 Total	Resources—				
Total	Estimated balance July 1st\$	50,000	00		
Recapitulation— \$ 227,795 50 Salaries \$ 227,795 50 Dog pound 3,100 60 Fall election, 1901 35,270 00 Fall election—Supplemental Estiamte No. 1 2,164 00 Current expenses 19,136 00 Museum of Art 12,000 00 Printing and stationery 31,200 00 Total estimates \$ 330,665 50	Estimated income from rents, licenses, franchises, etc	100,000	00		
Salaries \$ 227,795 50 Dog pound 3,100 00 Fall election, 1901 35,270 00 Fall election—Supplemental Estiante No. 1 2,164 00 Current expenses 19,136 00 Museum of Art 12,000 00 Printing and stationery 31,200 00 Total estimates \$ 330,665 50	Total			\$	150,000 00
Dog pound 3,100 00 Fall election, 1901. 35,270 00 Fall election—Supplemental Estiamte No. 1. 2,164 00 Current expenses 19,136 00 Museum of Art 12,000 00 Printing and stationery 31,200 00 Total estimates \$ 330,665 50	Recapitulation—				
Fall election, 1901	Salaries\$	227,795	50		
Fall election—Supplemental Estiamte No. 1	Dog pound	3,100	90		
Current expenses 19.136 00 Museum of Art 12,000 00 Printing and stationery 31,200 00 Total estimates \$ 330,665 50	Fall election, 1901	35,270	00		
Museum of Art	Fall election—Supplemental Estiamte No. 1	2,164	00		
Printing and stationery	Current expenses	19.136	00		
Total estimates	Museum of Art	12,000	00		
	Printing and stationery	81,200	00		
Less estimated resources				\$	330,665 50
	Less estimated resources	.,		_	150,000 00

PUBLIC ENTERTAINMENT FUND.

For	defraying	the	costs	and	expenses	of	receptions,	entertain-	
n	nents and	celeb	ration	s				• • • • • • • • • • • • • • • • • • • •	\$ 2,000 00

GARBAGE FUND.

STREET OPENING FUND.

To pay the clay's portion of the assessments for opening the following streets:

Beaufait avenue\$	2,043	00
Twenty-third street	708	43
Orleans street	3,867	67
Twenty-sixth street	908	17
King avenue	351	43
Scovel place	1,233	00
Brown place	502	33
Eastern place	822	60
Moore place	617	10
Fifteenth street	705	79
Theodore street	5,934	49
Stanley avenue	1,227	33
Belvidere avenue	3,181	26
Beaubien street	11,267	50
Twenty-fifth street	347	10
St. Paul avenue	8,496	56
Cavalry avenue, estimated at 30 per cent of award	7,747	98
John R. street, estimated at 30 per cent of award	20,707	14
Current expenses, expert testimony, advertising, interest		
awards, etc	5,000	00

FIRE DEPARTMENT RETIRED AND PENSION FUND.

According to the provisions of an Act for the "Relief of Disabled Fireman," approved June 16th, 1885, the Board of Fire Commissioners have placed on the retired and pension list the following persons and duly notified the Controller of their action:

		Amo	unt
NAME.	When Retired or	of Ye	arly
	Pensioned.	Pens	lon.
John Black, Jr	March 1. 1886	3 2	10 00
William Sexton			20 00
Ellen V. Bloom			300 00
Elizabeth H. Turner			300 00
Catherine Coughlan			300 00
Elizabeth Robinson			800 00
Engelbert Feldman, guardian of Ade			
laide, Stella and Mary Schwarts			
children of the late Peter and Ros			
Schwartz		9	300 00
Albert V. Foisey			77 50
Elizabeth A. Boyd			00 00
Gaylon L. Tucker			577 50
Rosa M. Dely			800 00
Maria Pagel			100 00
William Dungerow			150 00
Mary L. Kort			00 00
Peter Smith			77 50
Michael Gray			25 00
Esther Fortune	· · · · · · · · · · · · · · · · · · ·	-	800 00
William Foley			50 00
Nora Ryan	- •		00 00
Mary Madigan			00 00
Catherine Keohane			300 00
George W. Lyon		•	~ 00
Including pension from Nov. 1, 1900		7	50 00
Bertha M. Regentin		•	
Including pension from Oct. 25, 1900		-	05 65
C. A. Little			150 00
Henry T. Moiles	Tuly 1 1901		00 00
John McKernan	.Inly 1 1901		75 00
Total		\$10,1	68 15
Less estimated cash balance July	1	6	23 35
			
Net total		\$ 9,5	44 80

POLICE PENSION FUND.

Name.	When Pensioned.	When Pension Expires.		nou ear	
Mrs. Ida Shoemaker	January 15, 1892	• • • • • • • • • • • • • • • • • • • •	\$	300	00
Caroline Shoemaker	January 15, 1892	August 5, 1905		60	00
Florence A. Thayer	December 26, 1891	•••••		300	00
Victoria Frances Kimball	January 5, 1892	••••••		300	00
Oliver Davis	May 18, 1892J	anuary 2, 1902		30	33
Millie Davis	May 18, 1892	March 22, 1905		60	00
Vernie Davis	May 18, 1892Dec	cember 8, 1907		60	00
Lillian Stewart	September 16, 1899			300	00
Leona Stewart	September 16, 1899	June 20, 1913		60	00
Total		- 	\$ 1	,470	23
Less estimated cash be	alance July 1			75	06
Net total appropris	ation required	- 	\$ 1	,895	27

BOARD OF PUBLIC WORKS.

Office of the Board of Public Works.

Detroit, February 11, 1901.

Hon. F. A. Blades, City Controller:

Dear Sir—The Board of Public Works herewith transmits its estimates of the moneys required for the proper conduct of the department in its charge for the fiscal year beginning July 1st. 1901, and ending June 30th, 1902. These estimates are made, as for several years past, with the idea that any balances remaining in the funds at the close of the fiscal year will be placed to the credit of such funds, in addition to the figures herein given.

Respectfully,

J. W. MILLEN,

H. KALLMAN,

MARSHALL H. GODFREY,

Board of Public Works.

GENERAL ROAD FUND.

Labor and material resurfacing wood pavements\$	70,000
Labor and material patching wood pavements	10,000
Labor and material repairing brick pavements	10,000
Labor and material repairing stone pavements	5,000
Labor and material repairing asphalt pavements	32,6 00
Lumber, sidewalks, crosswalks, intersections, etc	25 ,000
Hardware, nails, etc	3,000
Building new sidewalks (wood)	6,000
Repairing wood sidewalks, carpenter gangs	7,000
Repairing wood sidewalks, quick repair wagons	8,000
Eight sidewalk inspectors	7,512
One special inspector	939
One description clerk	1,034
Lumber inspector	600
Building and repairing wood crosswalks, intersections and culverts	5,000
Building new stone sidewalks	2,500
Building new stone intersections	8,000
Paving street and alley intersections	8 5,000
Pay rolls, paving inspectors, new streets	8,000
Superintendents of commissioners	4,200
Labor, stone crosswalks at alley entrances	1,000
Labor, hauling old material to storage yards	1,000
Cleaning snow from walks around parks and public buildings	1,000
Cleaning snow from walks (private)	5,000
Engineers and firemen, road rollers	2,000
Coal, supplies and repairs, road rollers	1,000
Eastern yard pay rolls, yardmaster, watchmen, laborers	8,000
Western yard pay rolls, yardmaster, watchmen, laborers	3,000
Inspectors, permits and connections	12,000
Repairs to bridges	1,250
Repairs to docks	4,000
Team for engineers' department	700
Stakes and labor setting same	1,500
New horse drinking fountains	600
Labor putting in new, repairing and painting old horse drinking	
fountains	600
Street signs and labor putting up	2,000
Sprinkling streets	1,500
Tools and repairs to tools	1 500

Plumbing, painting, oil, etc	500
Advertising	1,000
Printing and stationery	2,000
Insurance on tools, sheds and election booths	245
Postage and car fare	500
Asphalt maintenance contracts	35,000
Total	21.280
	,200
REPAVING FUND.	
WITH ASPHALT.	
Cass, Warren to Amsterdam (sheet)\$	41.100
Garfield, Woodward to W. L. Brush farm (sheet)	-
John R., Adelaide to Brady (sheet)	
Randolph, Monroe to Congress (block \$14,125) (sheet)	
Willis, Woodward to W. L. Brush farm (sheet)	-
Total\$	94,6E=
WITH BRICK.	
Amsterdam, Woodward to Cass\$	2,137
Bates, Jefferson to Cadillac square	5,378
Dix, Twenty-fourth to Boulevard	5,633
Dix, Clark to city limits	26,685
Eighteenth, Michigan to Myrtle	16,328
Eighteenth and a Half, Fort to River	1,300
Stanton, Fort to River	1,649
Farmer, Monroe to Wilcox	4,691
Foundry, Michigan to Baker	15,149
Larned, Third to River	4,923
Madison, Beaubien to St. Antoine	2,776
Park place, Michigan to State	1,440
Plum. Grand River to Fourth	4.986

 Russell, Forest to Ferry.
 14,695

 Tenth, Fort to River.
 2,405

 Warren, Woodward to Fourth.
 10,320

 Total
 \$120,489

WITH CEDAR.

Alexandrine, Woodward to Third\$	8,890
Ash, Grand River to Trumbull	2,206
Atwater, Riopelle to W. L. Dubois farm	8,206
Beaubien, Adams to Brady	12,593
Brush, Elizabeth to Brady	14,657
Brainard, Cass to Third	4,904
Congress, Bates to Elmwood	32,948
Columbia, Woodward to Cass	4,013
Duffield, Woodward to Cass	3,492
Dubois, Jefferson to Monroe	5,976
Elizabeth, Cass to Grand River	1,280
Elmwood, Jefferson to Clinton	7,787
Field, Jefferson to Champlain	4,454
Fifteenth, Michigan to Myrtle	11,787
Fifth, Grand River to Noble	5,804
Fifth, Lafayette to Michigan	5,913
Forest, Woodward to W. L. Brush farm	3,490
Franklin, Dequindre to Chene	7,051
Hancock, Greenwood to Twelfth	10,152
Labrosse, Fifth to Trumbull	5,995
Myrtle, Boulevard to Twenty-fifth	1,593
Mt. Elliott, Waterloo to Kercheval	3,067
National, Bagg to Michigan	8,775
Orleans, Jefferson to Gratiot	17,852
Piquette, Hastings to Russell	4,555
Selden, Woodward to Third	8,421
Selden, Greenwood to Lincoln	4,178
Twenty-fourth, Michigan to Hancock	19,031
Walker, Jefferson to river	5,645
Warren, Hastings to Russell	4,308
-	

Total\$239,022

(Asphalt, sheet, \$2.50 yard, Asphalt, block, \$2.65 yard, Brick, \$1.80 yard, Cedar, \$1.33 yard.)

RECAPITULATION.

Asphalt	94,62
Brick	120,490
Cedar	239,02
-	
Total	454,131
PUBLIC SEWER FUND.	
Dubois street, from north line Maple to Canfield sewer	47,000
Guilloz street, from south line Sidney to south line Holbrook	8,00
Cadillac avenue, from 3,600 feet north of Kercheval to alley north of	
Mack	23,32
Field avenue, from 10 Ofeet north of Frederick to north line of Medbury	7,68
Helen avenue, from Lambert to Harper	3,93
Helen avenue, extension of outlet and stone face	2,50
Mt. Elliott avenue, extension to city limits	2,25
Third street, Antoinette to railroads (on account of grade separation).	5,400
Michigan, from west line First to east line Fourth	4,800
Adair street, extension of outlet	12,000
Lothrop avenue, section 5, Seward to Gilbert	6,40
Swain avenue, stone front and repairs to timbers	70
Beaufait avenue, from alley south Waterloo to alley south of Mack	12,15
Repairs to sewer outlets, timber work, etc	1,00
Sewer arms	12,00
Receiving basins	48,00
Team for sewer engineers	70
Printing, stationery, etc	30
-	
Total	198,15

PUBLIC BUILDING FUND.

CITY HALL.

General	repair s	to	building,	furniture,	boilers,	elevators	and	closets,		
prior	to wor	k o	f remodel	ing					\$:	1,500
Tanitor										700

CITY CONTROLLER.	255
MUNICIPAL COURT BUILDING.	
General repairs to building	1,000
Plumbing and closets	400
Repairs to boilers and elevators.	300
repairs to bollers and elevators	300
HEALTH BUILDING.	
General repairs	200
Plumbing and closets	100
-	
Kalsomining	300
·	
BOARD OF PUBLIC WORKS-GENERAL FUND.	
Three Commissioners	910 E00
THE COMMISSIONERS	410,000
SECRETARY'S OFFICE.	
Secretary	\$ 2,500
Secretary	\$ 2,500 1,800
•	
Chief Clerk	1,800
Chief Clerk	1,800 1,200 1,200
Chief Clerk Stenographer Bookkeeper	1,800 1,200 1,200 1,034
Chief Clerk Stenographer Bookkeeper Financial Clerk	1,300 1,200 1,200 1,034 1,200
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk.	1,300 1,200 1,200 1,034 1,200 1,034
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk	1,800 1,200 1,200 1,034 1,200 1,034 1,034
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each).	1,300 1,200 1,200 1,034 1,200 1,034 1,034 2,068
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk	1,800 1,200 1,200 1,034 1,200 1,034 1,034
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each) Meter Inspector	1,800 1,200 1,200 1,034 1,200 1,034 1,034 2,068 1,200
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each) Meter Inspector	1,800 1,200 1,200 1,034 1,200 1,034 1,034 2,068 1,200
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each) Meter Inspector Two Messengers	1,800 1,200 1,200 1,034 1,200 1,034 1,034 2,068 1,200
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each) Meter Inspector Two Messengers CITY ENGINEER'S OFFICE	1,300 1,200 1,200 1,034 1,200 1,034 1,034 2,068 1,200 480
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each) Meter Inspector Two Messengers CITY ENGINEER'S OFFICE.	1,300 1,200 1,200 1,034 1,200 1,034 1,034 2,068 1,200 480
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each) Meter Inspector Two Messengers CITY ENGINEER'S OFFICE.	1,300 1,200 1,200 1,034 1,200 1,034 1,034 2,068 1,200 480
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each). Meter Inspector Two Messengers CITY ENGINEER'S OFFICE. City Engineer First assistant on sewers. Second assistant on sewers.	1,300 1,200 1,200 1,034 1,200 1,034 2,068 1,200 480 8,000 1,800 1,100
Chief Clerk Stenographer Bookkeeper Financial Clerk Permit Clerk Pay roll Clerk Record Clerk Two Sidewalk Clerks (\$1,084 each). Meter Inspector Two Messengers CITY ENGINEER'S OFFICE. City Engineer First assistant on sewers. Second assistant on streets.	1,300 1,200 1,200 1,034 1,200 1,034 2,068 1,200 480 8,000 1,800 1,100 1,300

One Draughtsman	1,034
One Clerk, sewer assessments	1,200
One assistant on grade separation	1,100
One Transitman	1,100
One Leveler	1,034
One Clerk	1,034
Three Rodmen (\$1,034 each)	3,102
Printing, stationery and supplies	600
Total	\$46,054
Less estimated receipts from Gas Company	1,200
Net total	\$44,854
ROAD DISTRICT FUNDS	
First Ward-	
Working appropriation	
Loan to be repaid 4,000	,
Opening John R. st	
	\$26,000
Green I West	
Second Ward-	
Working appropriation)
Loan to be repaid 6,000	
	- 26,000
Third Ward-	
Working appropriation	1
Loan to be repaid	
· · · · · · · · · · · · · · · · · · ·	- 10,000
	10,000
Fourth Ward	
Working appropriation)
Loan to be repaid 5,000	•
	- 17,000
Fifth Ward	9,000

Sixth	Ward	_
-------	------	---

Working appropriation 8,000	
Loan to be repaid	
	9,000
Seventh Ward	8,000
Eighth Ward	8,000
Ninth Ward	8,000
Tenth Ward	7,000
Eleventh Ward	7,000
Twelfth Ward	7,000
Thirteenth Ward	7,000
Fourteenth Ward	7,000
Fifteenth Ward	7,000
Sixteenth Ward	7,000
Seventeenth Ward	8,000
- -	
Total	178,000

BELLE ISLE BRIDGE FUND.

Salaries\$	7,000 00
Repairs to sidewalk and iron span	600 00
Painting new portion of bridge, island end	400 00
Repairing rip-rapping at draw pier	600 00
Electric motor for draw	900 00
Coal, oil, waste, repairs to boiler, ice and brooms	250 00
	
Made)	0.000.00

WESTERN MARKET FUND.

Maintenance and repairs\$	400 00
Painting iron and brick work and repairing stone work	600 00
Flushing apparatus	100 00
Deficiency (unpaid bills)	889 32
Model .	4 000 00

EASTERN MARKET FUND.

Maintenance and repairs	\$ 300	00
Painting old market	1,650	00
New office	400	00
Total	\$ 2,350	00
RECAPITULATION.		
General Road Fund	321,280	00
Repaying Fund-		
Asphalt \$ 94,621 00		
Brick		
Cedatr 239,022 00		
	454,182	00
Public Sewer Fund	198,150	00
Public Building Fund	4,500	00
Board of Public Works General Fund	44,854	00
Road District Funds	178,000	00
Belle Isle Bridge Fund	9,750	00
Western Market Fund	1,989	32
Eastern Market Fund	2,350	00

SUPPLEMENTARY REPAVING ESTIMATES.

To the Honorable the Common oCuncil.

Gentlemen—In compliance with resolutions adopted by your honorable body, the Board of Public Works herewith submits additional repaying estimates, as follows:

These estimates are transmitted as supplemental to the Board's repaying estimates, already submitted, and the Board offers no further recommendations, taking it for granted that the aldermen presenting the various resolutions will stand sponsor for their respective requests.

Respectfully submitted,

J. W. MILLEN, H. KALLMAN, MARSHALL H. GODFREY, Board of Public Works.

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Ald. Beamer—		
Horton, Oakland to Beaubien, cedar	3,550	00
Raynor, Gratiot to Clinton	1,358	00
Ald. Coots—		
Alexandrine, Woodward to Brush farm, cedar	4,507	00
Gratiot, Woodward to Miami, asphalt block	6,911	00
Ald. Coots and Freda		
Woodbridge, Woodward to Hastings, brick	15,261	00
Ald. Jerome-		
Cass, Fort to Lafayette, asphalt block	2,836	00
Peterboro, Woodward to Cass, cedar	3,660	00
Rowland, Michigan to Grand River, brick	3,200	00
Ald. Koenig—		
Clinton, Brush to Hastings, cedar	3,975	00
Ald, Freda—		
Adelaide, Brush to St. Antoine, cedar	2,816	00
Beaubien, Brady to Canfield, cedar	5,077	00
Eliot, Brush to Hastings, cedar	5,720	00
Leland, Beaubien to Hastings, cedar	4,219	00
Winder, Brush to St. Antoine, cedar	3,287	00
Ald. Snow—		
Fourth, Grand River to Holden, sheet asphalt	72,415	00
Ald. Keating—		
Cherry, Grand River to Fifth, cedar	3,790	00
Forest, Fourth to Greenwood, brick	8,575	00
Jones, First to Fifth, cedar	4,816	00
Ala Dalmal		
Ald. Deimel—		
Elizabeth, Hastings to alley adjoining Stroh's brewery		
Hastings, Gratiot to High, brick	6,804	
Hastings, Congress to Gratiot, brick		
Rivard, Eliot to Canfield, cedar	9,485	UU _

Alfred, Russell to Riopelle, asphalt block	2,988 00
Ald. Houghton—	
Warren, Twelfth to Lincoln, cedar	4,947 00
Twelfth, Grand River to Putnam, brick	15,851 00
Calumet, Grand River to Trumbull, cedar	6,065 00
Merrick, Twelfth to Lincoln, cedar	6,292 00
Ald. Lemke—	
St. Aubin, Gratiot to Canfield, brick	28,098 00
Ald. Tossy—	
	5 000 00
Waterloo, Ohene to Gratiot, cedar	7,292 00
Ald. Liphardt—	
Hoffman, Fort to River, brick	1,705 00
Humboldt, Ash to Buchanan, cedar	11,453 00
Seventeenth, Michigan to Fort, cedur	19,680 00
Wabash, Bagg to Baker, cedar	12,836 00
Ald. Koch—	
Grandy, Forest to Chene, cedar	23,053 00
Jos. Campau, Gratiot to Canfield, cedar	12,805 00
Jos. Campau, Clinton to Monroe, cedar	2,320 00
Macomb, Chene to McDougall, cedar	6,235 00
Waterloo, Chene to McDougall, cedar	5,183 00
Ald. Reinhardt—	
McGraw, Twenty-fourth to Grand River, cedar	5,488 00
Maybury Grand, Michigan to Butternut, cedar	2,931 00
Twenty-fourth, River to Baker, cedar	12,360 00
Twenty-fourth, Merrick to McGraw, cedar	7,017 00
Ald. Weber—	
Maybury Grand, Butternut to Myrtle, cedar	4,747 00
Myrtle, Sullivan to Twenty-fifth, cedar	7,420 00
Twenty-first, Fort to Baker, cedar	9.816 00

Al	d.	M	Ш	er-

Elmwood, Gratiot to Hunt, asphalt block	17,598	00
Mt. Elliott, Mack to Gratiot, cedar	5,273	00
Macomb, McDougall to Elmwood, cedar	8,090	00
Waterloo, McDougall to Mt. Elliott, cedar	7,667	00
Ald. Moeller —		
Vinewood, Buchanan to Warren, cedar	8,134	00
Ald. Nevermann-	•	
Fort, Twenty-fourth to Clark, brick	27,195	0 0
Ald. Hansjosten—		
Helen, Jefferson to Champlain, cedar	4,577	00
Meldrum, Jefferson to Kercheval, cedar	13,359	00
Ald. Atkinson—		
Junction, Fort to railroad, brick	45,553	00
Michigan, Twenty-eighth to city limits, brick	28,489	90
Ald. Hillger—		
Champlain, Boulevard to Baldwin, cedar	3,667	00
Total\$	566,380	<u></u>
SUPPLEMENTARY GENERAL ROAD FUND ESTIMATE.		

To the Honorable, the Common Council:

Gentlemen—In compliance with resolutions adopted by your honorable body, the Board of Public Works herewith submits an estimate, supplemental to the General Road Fund estimates already submitted. This estimate is based on resolutions adopted by the Common Council, January 22, 1901, offered by Ald. Freda, Mohn, Weiler, Tossy and Koch:

Resurfacing Gratiot avenue, from Randolph street to McDougall avenue, with asphalt blocks (including the taking up and hauling the present granite block surfacing to storage yards and piling same).. \$34,239

The Board of Public Works offers no recommendation in connection with this estimate, taking it for granted that the aldermen of the different wards representing the improvement asked for will stand sponsor for their respective requests.

Respectfully submitted,

J. W. MILLEN, H. KALLMAN, MARSHALL H. GODFREY, Board of Public Works.

SUPPLEMENTARY REPAVING ESTIMATES.

To the Honorable the Common Council:

Gentlemen-In compliance with the resolution adopted by the Common
Council, March 5th, the Board of Public Works begs leave to submit a sup-
plementary estimate to cover the expense of repaving Brooklyn avenue, from
Grand River to Lysander street:

> MARSHALL H. GODFREY, Vice-President.

SUPPLEMENTARY PUBLIC SEWER FUND ESTIMATE.

To the Honorable the Common Council:

Gentlemen—In compliance with the resolution adopted by the Common Council, March 5th. the Board of Public Works begs leave to submit a supplementary estimate to cover the expense of rebuilding the brick public sewer in Hastings street, from High to Brady:

> MARSHALL H. GODFREY, Vice-President.

SUPPLEMENTARY ESTIMATES PUBLIC BUILDING FUND. REMODELING CITY HALL.

PUBLIC LAVATORIES.

То	To construct sunken lavatories and toilet buildings	in	the	e ce	enter	of	
	the city (as per resolution of the Common Council,	F	eb. S	2 6, 1	1901	•••	10,000
	Total			,		\$	260,000
	Respectfully.						

F. A. BLADES, Controller.

BOARD OF HEALTH.

Hon. F. A. Blades, Controller, Detroit, Michigan:

Dear Sir—Following is a statement of the estimated expenditures of the Board of Health of Detroit for the fiscal year, 1901-1902:

SALARIES.

Health Officer	\$ 8,000	
Secretary	1,850	
Sanitary Engineer	1,350	
Chemist and Bacteriologist	1,350	90
Food and Milk Collector	600	90
Medical Disinfectors, two (each \$900)	1,800	00
Two Meat Inspectors (each \$600)	1,200	00
Three Plumbing Inspectors (each \$840)	2,520	00
One Garbage Inspector	600	00
Registrar and clerk contagious diseases	900	00
Night clerk and janitor	600	00
Two quarantine inspectors (each \$600)	1,200	00
Funeral inspector	600	00
Two guards at hospital (each \$600)	1,200	00
Two guards at hospital, Sundays (each \$112)	224	00
Sanitary Engineer's clerk	600	00
Permit clerk and typewriter	420	00
The state of the s	600	00
Day janitor	000	
Labor (smallpox hospital)	500	
· ·		00
Labor (smallpox hospital)	500 1,500	00 00
Labor (smallpox hospital)	500 1,500	00 00
Labor (smallpox hospital)	500 1,500	00 00
Labor (smallpox hospital)	500 1,500	00
Labor (smallpox hospital) Labor (quarantine guards) Total labor SUPPLIES.	\$22,114 \$ 300	00
Labor (smallpox hospital) Labor (quarantine guards) Total labor SUPPLIES. Antitoxin	\$22,114 \$ 300	00 90 00 00
Labor (smallpox hospital). Labor (quarantine guards). Total labor	\$22,114 \$ 300 30	00 00 00 00 00
Labor (smallpox hospital). Labor (quarantine guards). Total labor SUPPLIES. Antitoxin Advertising Care of poor patients.	\$22,114 \$ 300 \$00	00 00 00 00 00 00
Labor (smallpox hospital). Labor (quarantine guards). Total labor SUPPLIES. Antitoxin Advertising Care of poor patients. Disinfectants	\$22,114 \$22,114 \$300 \$00 \$00	00 00 00 00 00 00 00
Labor (smallpox hospital). Labor (quarantine guards). Total labor SUPPLIES. Antitoxin Advertising Care of poor patients. Disinfectants Fuel	\$ 300 \$22,114 \$ 300 \$00 \$00 700	00 00 00 00 00 00 00
Labor (smallpox hospital). Labor (quarantine guards). Total labor SUPPLIES. Antitoxin Advertising Care of poor patients. Disinfectants Fuel Groceries	\$22,114 \$ 300 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	00 00 00 00 00 00 00
Labor (smallpox hospital). Labor (quarantine guards). Total labor SUPPLIES. Antitoxin Advertising Care of poor patients. Disinfectants Fuel Groceries General expense	\$22,114 \$ 300 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	00 90 00 00 00 00 00 00 00
Labor (smallpox hospital). Labor (quarantine guards). Total labor SUPPLIES. Antitoxin Advertising Care of poor patients. Disinfectants Fuel Groceries General expense Hospital repairs	\$22,114 \$ 300 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00 \$00	00 90 00 00 00 00 00 00 00

Laboratory supplies	75 00
Messenger service	100 00
Postage	150 00
Printing and stationery	500 00
Transportation (inspectors)	400 00
Vaccine matter	200 00
Total supplies	\$ 6,875 00

RECAPITULATION.

Total supplies	\$ 6,875 00
Total labor	22,114 00

Respectfully submitted,

JAS. H. POUND, President.

Detroit, February 9, 1901.

Detroit, Mich., March 7, 1901.

Hon. F. A. Blades, Controller:

Dear Sir-Following is a statement of supplemental estimates of the Board of Health for the fiscal year 1901-1902:

BOARD OF HEALTH ESTIMATES-(SUBSTITUTE).

	First Estimate.	Change.	Second Estimate.
Health officer	\$ 3,000 00	\$2,000 00	\$ 5,000 00
Secretary	1.350 00	150 00	1,500 00
Sanitary engineer	1.350 00	150 00	1,500 00
Chemist and bateriologist	1,350 00	150 00	1,500 00
Two food and milk inspectors, each	2,000	200 00	2,000 00
at \$750	600 00	900 00	1,500 00
Two medical inspectors and disinfec-			
tors, each at \$900	1,800 00		1,800 00
Two meat inspectors, each at \$600	1,200 00		1,200 30
Three plumbing inspectors, each at			•
\$ 1,000	2,520 00	480 00	3,000 00
One garbage inspector	600 00		600 00
Registrar and contagious disease clerk	900 00	300 00	1,200 00
Night clerk and janitor	600 00		600 00
Two quarantine inspectors, each \$750	1,200 00	300 00	1,500 00
One funeral inspector	600 00		600 00
Two guards at hospital	1,200 00		1,200 00
Two guards at hospital for Sundays .	224 00 1	Reduc. 16 00	208 00
Clerk for sanitary engineer	600 00		600 00
Permit clerk and typewriter	420 00	60 00	480 00
Day janitor	600 00 1	Reduc. 240 00	360 00
Labor, smallpox hospital	500 00	500 00	1,000 00
Labor, quarantine guards	1,500 00	1,000 00	2,500 00
Totals	\$22,114 00	\$5,734 00	\$27,843 00

SUPPLIES.

•					
Antitoxine	\$ 300	00	\$ 200 00	\$ 500	0 00
Advertising	80	00		30	00
Care of poor patients	900	00	100 00	1,000	00 (
Disinfectants	300	00	100 00	400	0 00
Fuel	700	00	300 00	1,000	00 (
General expense	400	00	100 00	500	00
Groceries	2,500	00	•••••	2,500	00 (
Hospital repairs	50	00	50 00	100	(0)
Hospital supplies	100	00	100 00	200	00
Livery	50	00	50 00	100	00
Transportation, milk inspector	120	00		120	00
Laboratory supplies	76	00	26 00	100	00
Messenger service	100	00	25 00	125	6 00
Telephones	•••		72 00	72	90
Postage	150	00	••••	150	00
Printing and stationery	500	00	Reduc. 100 00	400	00
Transportation, department inspectors	400	00	•••••	400	00
Vaccine matter	200	00	•••••	200	00
Totals	\$ 6,875	00	\$1,022 00	\$ 7,897	00

RECAPITULATION.

Total supplies	\$ 7,897 00
Total labor	27,848 00
-	
Grand total	\$35,745 00

Respectfully submitted,

By JOHN F. McKINLAY, Secretary.

RECORDER'S COURT FUND.

Detroit, Mich., February 21, 1901.

Hon. F. A. Blades, City Controller:

Dear Sir—In accordance with your request, I submit the following as the amount required for the Recorder's Court Fund for the ensuing year:

Salaries of officers of court	\$14,200 00
Witness fees, ordinance cases	300 00
Printing, stationery, etc	200 00

Total \$14,700 00

CREDITS.

700 00	\$		 • • • • •	 ••••	• • • • • •	• • • • • •	• • • • • • •	fines	from	ecelpts	ted	Estima
		-										
4,000 00	\$1	• • • • •	 	 				• • • • • • • •	wired.	unt rec	am	Net

Yours respectfully,

JOHN A. GROGAN, Clerk.

BOARD OF POOR COMMISSIONERS.

Detroit, Mich., February 13, 1901.

Hon. F. A. Blades, City Controller:

Dear Sir—We beg leave to submit the following as our estimates for the fiscal year ending June 30, 1902:

Provisions	\$2 5,500 00
Fuel and delivery	9,000 00
Salaries	6,500 00
Hospitals	7,500 00
Drugs, medicines, etc	2,500 00
Burials and ground	2,000 00
Shoes and clothing	500 00
Transportation	400 00
Printing and stationery	500 00
Miscellaneous	600 00

Respectfully submitted,

A. C. VARNEY, JOHN NAYLON, JOHN S. QUINN, OTTO SCHERER.

Board of Poor Commissioners.

By the Board-P. H. DWYER, Secretary.

Detroit, Mich., March 5, 1901.

Hon. F. A. Blades, City Controller:

Dear Sir—In compliance with a request of the Agricultural Committee, we beg leave to submit a supplemental estimate of \$1,000 for necessary expenditures incidental to the cultivation of vacant land by city poor for the ensuing year.

Respectfully submitted,

A. C. VARNEY,
JOHN NAYLON,
JOHN S. QUINN,
OTTO SCHERER,

Board of Poor Commissioners.

By the Board-P. H. DWYER, Secretary.



METROPOLITAN POLICE COMMISSION.

Detroit, Mich., February 11, 1901.

Hon. F. A. Blades, City Controller:

Dear Sir—In compliance with your request of January 8th, 1901, I have the honor to submit herewith an estimate in detail of the amount of money deemed necessary for the proper maintenance and improvement of the Department of Police of the City of Detroit for the fiscal year ending June 30th, 1901.

I also inclose statement of the amount of money expended on the several itemized appropriations of this department for the six months ending December 31st, 1900.

Very respectfully yours,

J. EDWARD DUPONT,

Secretary Metropolitan Police Commission.

Estimated cost of maintaining the Detroit Police Department for one year from July 1st, 1901:

SUPERINTENDENT.

1		4,000 00
CAPTAINS.		
1 in charge of Detective Bureau\$	2,000 00	
1 in charge nights	1,500 00	
1 in charge of Central Precinct	1,700 00	
6 in charge of precincts, at \$1,500	9,000 00	
1 in charge of horses	1,500 00	
1 City Sealer of Weights and Measures	1,500 00	
		17,200 00
LIEUTENANTS.		
2 in charge of detectives, at \$1,500	3,000 00	
1 in charge of detectives	1,200 00	
1 in charge of buildings	1,100 00	
1 in charge of Central Division	1,100 00	
1 in charge of Truant squad	1,100 00	
1 at Recorder's Court	1,100 00	
1 at Police Court	1,100 00	
21 in charge of stations, at \$1,100	23,100 00	



ANNUAL REPORT OF THE

SERGEANTS.

DEMOZINI I.		
1 assistant to City Sealer	1,000 (00
2 at Police Court, at \$1,000	2,000 (10
3 at Woodbridge Street Station, at \$1,000	3,000 (00
28 for day and night duty, at \$1,000	28,000 (0
•		- 34,000 00
DETECTIVE.		
1 at Corporation Counsel's office		. 1 500 151
1 at Corporation Counsel's omce		. \$ 1,500 00
PATROLMEN (Detailed as follows:)		
17 acting detectives, at \$1,200	\$ 20,400 (10
14 precinct detectives, at \$1,000	14,000 (10
2 assistants at Corporation Counsel's Office, at \$900	1,800 (Ю .
1 Harbormaster	1,000 (10
6 at Recorder's Court, at \$900	5,400 (0
2 at Police Court, at \$900	1,800 0	0
2 at City Hall, at \$900	1,800 (0
3 at Municipal Building, at \$900	2,700 (0
1 at Public Library	900 0	0
1 at Dog Pound	900 0	0
3 acting truant officers, at \$1,000	3,000 0	0
12 on sanitary duty, at \$900	10,800 0	0
1 assistant to City Sealer	900 0	0
2 at headquarters day and night	1,800 0	0
1 clerk in Superintendent's office	1,000 0	0
1 assistant clerk	900 0	0
9 on street crossings, at \$900	8,100 0	0
7 on Belle Isle, at \$900	6,300 0	0
26 on patrol wagons day and night, at \$900	23,400 0	0
1 on patrol wagon day and night	800 0	0
27 on regular patrol duty, at \$800	21,600 0	0
276 on regular patrol duty, at \$900	248,400 0	0
-		- \$377,760 00
DOORMEN.		
		_

23 for day and night duty...... \$ 18,400 00

SIGNAL SERVICE DEPARTMENT.

1 superintendent of service	1,500 00
1 assistant superintendent of service	1,000 00
1 machinist	800 00
3 linemen, at \$720	2,160 00
1 instrument man	800 00
1 truckman	600 00
6 operators, at \$660	3,960 00
5 timekeepers, at \$600	8,000 99
3 operators, at headquarters, at \$660	1,980 00
	8 17 000 aa

EMPLOYES.

1 secretary, license collector and property clerk	\$ 2,500 00	
1 assistant secretary	1,500 00	
1 clerk, secretary's office	900 00	
1 superintendent's chief clerk, stenographer and photog-		
rapher	1,500 00	
1 surgeon	1,300 00	
1 attorney	1,000 00	
7 matrons, at \$600	4,200 00	•
2 hostlers (foremen), at \$720	1,440 00	
6 hostlers, at \$600	3,600 00	
1 clerk, detective bureau	900 00	
1 janitor, Hamlin Avenue Station	600 00	
1 janitor, at headquarters	600 00	
1 janitress, at Signal and City Sealer's Office	180 00	
1 telephone boy, Harbormaster's Office	300 00	
1 driver for patrol wagon	700 00	
	\$	21 220 (

CURRENT EXPENSES.

Books, stationery and printing\$	850 00
Barn supplies	500 00
Bicycles and repairs	800 00
Equipments	1,000 00
Fuel	3,000 00
Furniture, carpets, bedding, etc	1,500 00
Horses	2,000 00

Hay, grain, horse-bedding, etc	4,500 00	
Horseshoeing	1,500 00	
Harness and repairs thereto	500 00	
Ice and sprinkling	200 00	
Light	1,200 00	
Meals and lodgings	1,500 00	
Medical service	500 00	
Minor supplies	800 00	
Newspapers, directories, advertising, etc	700 00	
Postage	100 00	
Permanent improvements	1,500 00	
Repairs, painting, etc	2,500 00	
Rent of telephones	300 00	
Rent for barn, for headquarters' night patrol horses, etc	75 00	
Secret service, criminal investigations	4,000 00	
Signal service and telephone department	19,681 50	
Street car tickets	1,500 00	
Telegrams	300 00	
Wagon repairs	1,500 00	
Washing and cleaning	400 00	
. -		\$ 52,906 50
· —		\$ 52,906 50
	-	
Total	-	
Total	-	
Total SUPPLEMENTAL ESTIMATES DETROIT POLICE DEI	- 	\$575,586 50
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEL	PARTME	\$575,586 50
	PARTME	\$575,586 50 ONT, 1901.
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEL	PARTME	\$575,586 50
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEL	PARTME	\$575,586 50 ONT, 1901.
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEI Painting Hunt Street Station	PARTME	\$575,586 50 0NT, 1901. \$ 375 00 175 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEI Painting Hunt Street Station	PARTME	\$575,586 50 2NT, 1901. \$ 375 00 175 00 200 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEI Painting Hunt Street Station	PARTME	\$575,586 50 ONT, 1901. \$ 375 00 175 00 200 00 150 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEFINITION Painting Hunt Street Station	PARTME	\$575,586 50 ONT, 1901. \$ 375 00 175 00 200 00 150 00 376 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DEP Painting Hunt Street Station	PARTME	\$575,586 50 ONT, 1901. \$ 375 00 175 00 200 00 150 00 376 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DESTRUCTION PAINTING Hunt Street Station	PARTME	\$575,586 50 2NT, 1901. \$ 375 00 175 00 200 00 150 00 375 00 725 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DESTRUCTION PAINTING Hunt Street Station	PARTME	\$575,586 50 ONT, 1901. \$ 375 00 175 00 200 00 150 00 775 00 700 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DESTRUCTION PAINTING Hunt Street Station	PARTME	\$575,586 50 ONT, 1901. \$ 375 00 175 00 200 00 150 00 375 00 700 00 75 00
SUPPLEMENTAL ESTIMATES DETROIT POLICE DESTRUCTION PAINTING Hunt Street Station	PARTME	\$575,586 50 SNT, 1901. \$ 375 00 175 00 200 00 150 00 700 00 75 00 150 00

CITY CONTROLLER.

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Equipments for w men	1,000 00
Gymnasiums	500 00
Fire escape for headquarters building	50 00
New patrol wagon	600 00
-	
Total	OF 185 00

RECAPITULATION.

Estimates for maintenance	\$575,586 50
Supplemental estimates	65,175 00
	\$640.761 50
Less estimated cash balance July 1, 1901	10,000 00
•	9620 761 FA

Hon. F. A. Blades, City Controller:

Dear Sir—In accordance with Act 440, of Local Acts, I send you herewith Superannuated Police Fund Budget for the year 1901.

Very respectfully,

J. EDWARD DUPONT,

Secretary Metropolitan Police Commission.

SUPERANNUATED POLICE FUND.

Joseph Burger, captain	750 0 0
James Purdue, lieutenant	550 00
Frank H. Blakely, detective sergeant	600 00
George H. Thomas, sergeant	550 00
Charles E. Hard, sergeant	500 00
Albert Wilford, patrolman	450 00
Fred S. Gilmartin, patrolman	400 00
Robert Robertson, patrolman	400 00
James Johnston, patrolman	450 00
Adolph Wilde, patrolman	450 00
Frederick W. Lasher, patrolman	450 00
• —	

WATER COMMISSION FUND.

PUBLIC LIBRARY FUND.

Hon. F. A. Blades, City Controller:

Dear Sir—I beg to inform you that the Detroit Library Commission has decided to ask for appropriations as follows, in addition to the one-fifth of a mill which is allowed by law:

Ten thousand dollars to establish a law branch of the Public Library. This request is made upon the urgent application of members of the Wayne County Bar, and with the proviso that the Board of Wayne County Auditors provide a room of suitable capacity and conveniently located in the County Court House, heat and light the same and render the necessary janitor service, all at the expense of the county.

Ten thousand dollars to buy books for the general library and branches. This request is made in consequence of the great falling off of revenue from police and other court fines, which for 20 years, up to 1897, averaged nearly \$12,000, and which since that time have averaged \$2,900.

One thousand dollars to supply books to the libraries of the three high schools.

Six hundred dollars to pay the salary of a policeman who is detailed for duty at the library. The presence of a policeman in uniform is absolutely necessary on account of the great crowds which gather at the library. A policeman has been regularly on duty there for several years past, and this appropriation is asked to relieve the Police Department to that extent.

Very respectfully yours,

JAMES E. SCRIPPS,

Secretary.

(See Sec. 486, Chap. 20, City Charter.)

For salary of policeman detailed for duty at library	600 00
To supply books to the libraries of the three High Schools	1,000 00
To buy books for general library and branches	10,000 90
To establish a law branch in the Wayne County Court House	. 10,000 00
One-fifth of one mill on the dollar of assessed valuation	\$ 47,559 85



BOARD OF EDUCATION FUND.

Hon. F. A. Blades, Controller, City:

Dear Sir—I hand you herewith an estimate of the amount of money required for the maintenance and necessary extension of the Detroit public school system for the fiscal year ending June 30, 1902, as adopted by the Board of Education at a meeting held January 31, 1901, and amounting in the aggregate to \$1,647,863 36.

Yours respectfully,

L. H. CHAMBERLIN,

Secretary.

BUILDING FUND.

For a 15-room building north of Mack avenue and east of Van	
Dyke avenue	\$ 45,000 00
For a site for same	5,000 00
For a Normal Training and Practice School, including a 19-room	
building to relieve the Tilden, on the Central High School site	200,000 00
If the building is made fire-proof, add	30,000 00
For a 15-room building to replace the Barstow School	45,000 00
For additional land adjoining this site	6,000 00
For a 15-room building in the vicinity of Mack and Campau ave-	
nues,	45,000 00
For a site for same	6,500 00
For a 10room addition to the Owen School, including a new heating	
and ventilating plant for both old and new part	85,000 00
For a 6-room addition to the Tappan School for primary and gram-	
mar purposes	20,000 00
For an 8-room addition to the Palmer School	26,000 00
For additional land adjoining this school	2,500 00
For a 4-room addition to the Johnston School for primary and	
grammar grades	15,000 00
For additional land adjoining this school	5,000 00
For a 2-room addition to the Clay School for primary grade	6,600 00
For a 2-room addition to the Williams School for primary grade	6,000 00
For a 2-room addition to the Brownson School for primary grade.	5,500 00
For the completion of the new Craft School	34,091 00
For a workshop and storeroom on West High street	17,750 00
For additional land adjoining the Campbell School	2,500 00
For special furniture and lockers Eastern High School	21,180 00

For lockers in the Central High School	10,000	00
For a cooking and sloyd school in the Eastern High; for grammar		
grade schools in that vicinity	556	00
For fitting up fourth story of Central High School for gymnasium		
purposes	2,500	00
For finishing third floor of Eastern High School for gymnasium		
purposes	1,500	00
For kalsomining corridors, auditorium, etc., Eastern High	500	00
For additional land adjoining the site of the Washington Normal		
School	20,000	00
For modern heating and ventilating systems in the Chaney, Clay,		
Hancock and Fairbanks Schools	33,155	00
For fire escapes on 16 schools	20,000	00
For fire extinguishers	300	00
For architects' services preparing plans and specifications for new		
buildings, etc., 2 per cent on \$592,189.00	11.844	00
For superintendence of erection, etc, 1½ per cent on \$496,564.00	7,448	00
For consulting engineers' services, preparing plans and specifica-	.,	
tions for heating and ventilating plants, 2 per cent on \$95,625,00.	1.912	00
For superintendence of installation of same, 1½ per cent on	-,	••
\$95,625.00	1,435	00
For steam engineer's services during completion of buildings	1,080	
For school desks and furniture for new schools, 94 rooms	14,828	
For window shades in new schools	1,128	
For 56 new closets, Tappan school.	2,500	
For 25 new closets, Wilkins School	1,200	
For electric wiring in 5 schools	1,000	
For changes in vent flues, Alger School.	•	
For slate blackboards to replace plaster	180	
For fences around 2 school yards	5,000 862	
For grading, graveling and sodding 10 school yards	1.056	
For new walks, 4 schools	3,367	
For weather strips, 16 schools	5,200	
For water filters	500	
For improving and beautifying school grounds in conjunction with		
the park board	2,000	00
For paving sewer and other assessments	2,500	00
For insurance, builders' risk	472	00
For contingencies that cannot be foreseen or estimated	5,000	
For estimated deficit June 30, 1901	56,408	00
Total required for the building fund	795,047	00

MAINTENANCE FUND.

For repairs, renovations and improvements to school buildings and	
grounds, as per itemized estimates\$	22,826 00
For new furnaces and repairs to old ones	1,500 00
For repairs to boilers and steam heating plants	2,000 00
For insurance premiums	742,00
For 7,500 otns Jackson Hill lump coal, for schools now established	22,500 00
For 5,000 tons Jackson Hill pea coal, for schools now established	15,000 00
For 250 tons anthracite coal, for schools now established	1,375 00
For 800 tons Jackson Hill coal, for new schools	2,400 00
For inspecting and weighing coal, 13,550 tons	1,084 00
For 100 cords hard wood	526 00
For 200 cords kindling	500 00
For supplies for use of janitors in care of buildings and grounds	4,000 00
For replacing worn out school desks and other school furniture	8,000 00
For cleaning and renovating old school furniture	2,500 00
For window shades to replace those worn out	500 00
For rent of building for Ungraded School	600 00
For rent of workshop and storeroom	600 00
For electric light current in 11 schools	950 00
For electric motor current in 8 schools	400 00
For fuel gas in 8 cooking centers and illuminating gas in 12 schools	300 00
For water rates	2,000 00
For telephones in 25 schools and in office building	589 00
For purchasing pianos	3 000 00
For renting pianos	2,000 00
For feed and incidentals in care of horse and wagon	200 00
For disinfectant	200 00
For free text-books in schools now established	15,000 00
For books, school supplies, etc., for new schools, 94 rooms	4,230 00
For repairs and rebinding books	2,500 00
For school supplies, maps, charts, globes, paper, blank books and	
stationery, for school records and reports	13,000 00
For Kindergarten supplies	1,500 00
For printing, advertising, blank books, stationery and postage, in	
general office expenses	2,500 00

For census enumeration and books	2,600	00
For Manual Training Centers extension and supplics	5,215	00
For pay roll of janitors and assistants, 74 schools, 12 months	74,045	00
For pay roll of janitors and assistants in 11 new schools and addi-		
tions, 10 months	2,350	00
For pay roll of janitors in 8 night schools	900	00
For pay roll of officers and clerks, 12 months	17,160	90
(Estimated pay roll for 970 teachers for the month of September,		
1901, excluding night school teachers, \$70,924 72)		
For amount of 10 pay rolls for 970 teachers in schools now estab-		
lished'	709,247	20
For schedule increase from January to July, 1902	3,724	30
For pay roll of night school teachers	9,000	00
For pay roll of 36 additional teachers in new schools for seven		
months	15,120	00
For contingencies and for miscellaneous purposes that cannot be		
foreseen or estimated	10,000	00
		_
Total	\$97 8,882	50
Total	•	
	•	
	13,061	14
Less estimated cash on hand June 30, 1901	13,061	14
Less estimated cash on hand June 30, 1901	13,061	14
Less estimated cash on hand June 30, 1901	13,061 \$965,821	36
Less estimated cash on hand June 30, 1901	13,061 \$965,821	36
Less estimated cash on hand June 30, 1901	13,061 \$965,821	36
Less estimated cash on hand June 30, 1901	13,061 \$965,821	36
Total required for the Maintenance Fund. RECAPITULATION. For the Maintenance Fund. Less estimated income as follows: From Primary School money. \$105,000 00 From interest on daily balances. 8,000 00	13,061 \$965,821	36
Total required for the Maintenance Fund. RECAPITULATION. For the Maintenance Fund. Less estimated income as follows: From Primary School money	13,061 \$965,821 965,821 113,000	14
Total required for the Maintenance Fund. RECAPITULATION. For the Maintenance Fund. Less estimated income as follows: From Primary School money	13,061 \$965,821 965,821 113,000 852,821	14
Total required for the Maintenance Fund. RECAPITULATION. For the Maintenance Fund. Less estimated income as follows: From Primary School money	13,061 \$965,821 965,821 113,000 852,821	14

FIRE COMMISSION.

Office of the Fire Commission,

Detroit, February 13, 1901.

Hon. F. A. Blades, Controller:

Sir-As provided by the act creating the Fire Commission of the City of Detroit, the Commissioners submit herewith, in detail, their estimate of the moneys required for the whole cost and expense of providing for and maintaining the fire department for and including the fiscal year ending June 30, 1902. Respectfully,

GEORGE W. STOCKWELL.

Secretary.

ESTIMATES FOR FISCAL YEAR 1901-1902-FIRE COMMISSION OF THE CITY OF DETROIT.

RUNNING EXPENSES.

· Pay rolls	,661 10
Hay, oats and bedding	,000 00
Harness and repairs 1	,200 00
Horseshoeing 5	, 2 50 00
Engine repairs	,200 00
Hose wagon repairs 1	,350 00
Wagon repairs 1	,770 00
Truck repairs	,400 00
General supplies 8	,600 00
Telegraph supplies	352 00
Washing 3	,225 00
Fuel 11	,150 00
Printing and stationery 1	,075 00
Building repairs 15	,900 00
Hose and suction repairs 1	400 00
Extra parts	600 00
Light for apparatus and houses 2	,000 00

\$556,133 10



ANNUAL REPORT OF THE

WATER EXTENSION.

New hydrants	9,000 00
New hydrant gates and gate boxes	8,000 00
New iron pipe	1,800 00
Sleeves and valves for tapping machine	1,000 00
Lumber for cistern repairs	2,000 00
Special castings; tees, sleeves, bends, reducers, etc	600 06
Pig lead	1,500 90
Brick, sand and cement for cistern repairs	1,500 00
Tools and repairs	300 00
Hydrant fixtures	300 00
Drain logs	500 00
Reservoir valves and rods	200 00
Packing	150 00
Gaskets	100 00
Draining nipples and leads	50 00
Drain pipes and fixtures for surface drains	150 00
Valve leathers	100 00
Nails, bolts and screws	50 00
Connections	400 00
Paving inspection	1,200 99
Labor	8,000 00
Painting hydrants and signal posts	. 1,575 00
- <u> </u>	
.	88,475 00
THE EXIDADE INTENSION	
TELEGRAPH EXTENSION.	
Labor \$	2,500 00
Registers	100 00
Cross-arms, braces and pins	150 00
Lightning arresters	10 00
Manhole covers	50 00
Wire	5,000 00
Tools	50 00
Screws	7 00
Key signs	25 00
Cut outs	5 00
	5 W
Fuse wire	

CITY CONTROLLER.	279
Keys and tags	150 00
Lag screws	15 00
Insulators	50 00
Lamps and lamp cord	75 0 0
Switches	3 0 00
Shades, rings and lamp fixtures	25 00
Paint	152 25
Door plates and brake-wheels	10 00
Handles, sockets and bushings	75 00
Cleats	15 00
Plugs	6 00
Tubing	25 00
Rosettes	5 00
Molding	5 00
Alcohol	5 00
Tacks	1 00
Chain and screw eyes	10 00
Connections	75 00
Tape	20 00
Line breaks	5 00
Repairs to boxes	200 00
Battery	8 8 76
Gongs	640 00
Solder	2 00
Pipe	200 00
•	9,737 00
NECESSARY APPARATUS.	
Marine risk on fire boats	1,550 00
Fire risk on supply stable and horses	75 00
For new hose	6,500 00
For new horses	12,250 00
For new fire alarm boxes	1,875 00
For new hose wagons	2,400 00
For new Eastman holders	650 00

\$ 25,800 00

RECAPITULATION.

Running expenses	\$556,133	10
Water extension	33,475	00
Telegraph extension	9,737	90
Necessary apparatus	25,300	00
·		-
Total	\$621,645	10
SUPPLEMENTAL ESTIMATE NO. 1.		
For pipe line extension:		
Completion of line on Woodward avenue, from Opera House cross-		
ing to Wilcox street, for which pipe, hydrants, gates and fittings		
are on hand	\$ 2,000	00
Extension of line from Woodward avenue to alley west of Wood-		
ward avenue, on State street	923	90
Extension of line from Woodward avenue to alley east of Wood-		
ward avenue, on Gratiot avenue	736	40
Extension of line on Eighth street, from River street to Fort street	1,437	80
.Extension of Woodward avenue line from Wilcox street to With-		
erell street	3,5 24	80
	\$ 8,622	90
SUPPLEMENTAL ESTIMATE NO. 2.		
For the purpose of paying Frank E. Kirby for preparing plans and		
specifications and superintending the building of fire boat	\$ 2,700	00
SUPPLEMENTAL ESTIMATE NO. 3.		
For new building to replace one now used by Engine Company No.		
9, which was erected in 1859 and will not admit of the remodel-		
ing necessary to put in the larger and heavier apparatus de-		
manded by the service required of this company	\$ 12,500	00
SUPPLEMENTAL ESTIMATE NO. 4.		
For the purpose of laying conduit and placing the wires of the	!	
department under ground on Michigan avenue, from Wabash	ı	
avenue to Twenty-eighth street	. \$ 5,000	00

SUPPLEMENTAL ESTIMATE NO. 5.

For the purpose of building a two-story addition in rear of stable		
SUPPLEMENTAL ESTIMATE NO. 6.		
For an engine house in the vicinity of Campbell avenue	and F	ort street:
House	18,000 00)
Lot	8,000 00)
Fences, sidewalks, etc	300 00)
Furniture	400 00)
Bell	250 00)
Alarm circuit bell	20 00	1
Register	50 00	}
Box	125 00	i
·		- \$17,145 00
Engine	4,700 00	1
Hose wagon	1,000 00	•
Hose	2,000 00	•
Horses	875 00)
Harness, blankets, etc	200 00	ı
Exercise wagon and sleigh	200 00	•
Engine heater	200 00	ı
Heating apparatus for house	700 00	1
		9,875 00
Running expenses for six months:		
Pay rolls	5 065 OO	,
Hay, oats and bedding	300 00	
Horseshoeing	75 00	
Supplies	100 00	
Washing	37 50	
Light	50 00	
Fuel	100 00	
-		5,727 50

SUPPLEMENTAL ESTIMATE NO. 7.

For an engine house in the vicinity of Twenty-seventh	street s	ınd Han-
cock avenue:		
House	13,000 00	
Lot	3,000 00	
Fences, sidewalks, etc	300 00	
Furniture	400 00	
Bell	250 00	
Alarm circuit bell	20 00	
Register	50 00	•
Box	125 00	•
_		\$17,145 00
Engine	4,700 00	
Hose wagon	1,000 00	
Нове	2,000 00	
Horses	875 00	
Harness, blankets, etc	200 00	
Exercise wagon and sleigh	200 00	
Engine heater	200 00	·
Heating apparatus for house	700 00	
- :		9,875 00
Running expenses for six months:		
Pay rolls	5,065 00	
Hay, oats and bedding	300 00	
Horseshoeing	75 00	
Supplies	100 00	
Washing	37 50	
Light	50 00	
Fuel	100 00	
-		5,727 50
Total		.\$ 32,747 50
SUPPLEMENTAL ESTIMATE NO. 8.		
For an engine house in the vicinity of Dix and Military a	venues:	
House		
Lot		

Fences, sidewalks, etc	
Furniture	
Bell	
Alarm circuit bell	
Register 50 00	
Box	
	\$17,145 00
Engine\$ 4,700 00	
Hose wagon 1,000 00	
Hose 2,000 00	
Horses 875 00	
Harness, blankets, etc	
Exercise wagon and sleigh	:
Engine heater	
Heating apparatus for house	
	9,875 00
Running expenses for six months:	
Pay rolls	
Hay, oats and bedding	
Horseshoeing	
Supplies 100 00	
Washing	
Light 50 00	
Fuel 100 00	
	5,727 50
Total	.\$32,747 50
GRAND RECAPITULATION.	
•	
Maintenance of the department	
Supplemental estimate No. 1	
Supplemental estimate No. 2	
Supplemental estimate No. 3	
Supplemental estimate No. 4	5,000 00
Supplemental estimate No. 5	
Supplemental estimate No. 6	,
Supplemental estimate No. 7	
Supplemental estimate No. 8	82,747 50
Total	762,710 50

FUBLIC LIGHTING COMMISSION.

Detroit, Feb. 5, 1901.

To the Honorable the City Controller, Detroit:

Dear Sir—We respectfully submit the following estimate of what funds will be required for the operation of the public lighting plant for the fiscal year ending June 30, 1902, together with the several amounts which will be required for contemplated extensions to the system:

FOR THE OPERATION OF THE PRESENT PLANT.

10,000 tons of coal, at \$2.50 per ton\$	25,000	00
Removing ashes	300	00
Oils, waste, etc	1,600	00
700,000 pairs carbons, at \$12 per M pairs	8,400	00
Incandescent lamp renewals	1,500	00
Maintenance of buildings, track, dock, etc	250	00
Maintenance of steam plant	1,500	00
Maintenance of electric plant	600	00
Maintenance of arc lamps	500	00
Maintenance of outside wiring, lines and cables	500	00
Maintenance of conduits and towers	200	00
Miscellaneous incandescent lighting expense	200	00
Repairs to buildings, painting stack, rebuilding ashpit, repairs to		
track and scales	1,000	00
Repairs to boilers and engines	2,000	00
Repairs to electric plant, dynamos and wiring	1,000	00
Repairs to arc lamps, charging and cleaning	1,000	00
Rebuilding lines	3,500	00
Rebuilding conduits and towers	2,000	00
Wages	55,000	00

Total for operation, maintenance and repairs......\$106,050 00

This estimate includes only those items which are imperative in operation, maintenance and repairs. During the past year we have been to additional expense on work in connection with repairs to the plant and lines. Owing to this being the fifth year of operation, much replacement has been necessary. This repair work has not yet been completed, so the maintenance and wages include only such amounts as are absolutely necessary to replace such defective parts as are dangerous. Many of the lines have been

built through streets which are now thick with foliage. These trees have grown up into the wires to such an extent that they are not only of great trouble during wind storms, but the escape of current at such times is gradually killing the trees. For this reason the commission is rebuilding these lines in alleys as much as possible.

FOR THE BETTERMENT OF THE PRESENT SYSTEM-UNDERGROUND

To place on the "underground system" the following lamps, which are now wired overhead:

Ledyard and Second; Henry and Second; High and Second; Gilman and Second; High, east of Second; Henry, west of Woodward; Sibley, west of Woodward; Alfred, east of Woodward; Edmund, east of Woodward; Cass and Henry; Cass and High; Cass and Gilman; Winder, east of Woodward; Adelaide and Woodward, tower; Edmund and John R.; Alfred and John R.; Adelaide and John R.; Winder and John R.

The estimated cost of doing the work is:

3,000 feet of lateral conduit and 7 manholes	00
6,000 feet of cable, laid, at 17 cents	00
11 underground lamp posts, set, at \$80.00	00
·	_
Total for extension of underground system\$2,840	00

FOR EXTENSIONS TO THE LIGHTING SYSTEM.

For 407 street lights:

407 arc lamps.

20 arc lamps extra, to allow of cleaning and repairing.

427 arc lamps, at \$22.00 each\$ Line work, poles, wires, switches, labor		
407 mast arms, put up, at \$11.00 each	4,477	00
Total for 407 arc lamp extensions in most important locations\$2 Cost of operating 407 lamps for nine months at the average cost for	2,271	00
operating during the past 18 months, at \$42.70 1	3,034	16
	5,305	 16

Besides these 407 lamps, there have been about 200 more asked for, for
which we submit the following estimate in addition:
200 arc lamps, at \$22.00 per lamp\$ 4,400 00
Line work, poles, wires, switches, labor 4,200 00
200 mast arms, put up, at \$11.00 each
A total of\$10,800 00
For operating 200 lamps for nine months, at the rate of \$42.70 per
annum 6,405 00
Total estimate for 200 lamps

In connection with the above estimates for extensions to the street lighting service, it will be well for the members of the Common Council and the Board of Estimates to look carefully over the city and see for themselves the many dark spots in Detroit. To the average person an examination of even the central portion of the city will reveal a want of street illumination which is surprising. The towers are blocks apart, and often not even one pole light is placed between them; and it is quite necessary in some of the down-town locations to place an additional are lamp on the base of the tower, where a dark shadow is cast on a much-traveled corner. The jog in many of our streets is responsible for an additional call for street lamps to properly illumine the street. There will also be found many streets, along which cars are propelled at a high rate of speed, which are improperly served; not only is this dangerous to traffic on these streets, but in many instances persons desiring to take the cars are often passed by on account of the motorman not being able to see them.

Lastly, we would call your attention to the lack of proper lighting in Clark, Palmer and other parks, as well as Cadillac Square, and the main streets up from the several depots, all of which it is intended to take care of if we are allowed the above estimates asked for. Cadillac Square is especially dark after the private illumination around the Campus Martius is turned off, and any one coming through this park at 12 o'clock at night finds it very black and disagreeable. The same may be said of the streets leading uptown from the different railroad stations and boat landings. There is need of much light in the down-town district as well as in the outskirts of the city, and, with a proper allowance given this Commission for extensions, the city will be proud of its lighting next year, instead of having so many dark streets as at present, which are a disgrace to it.

CONDUITS AND CABLES.

The additional conduits required in the half-mile circle are from the
Beaublen street conduit through either Congress or Larned to Randolph,
to Cadillac Square, to Bates street:
12 ducts, 1,470 feet
On Washington avenue, between State and Park:
9 ducts, 770 feet
On Randolph, from Larned to Woodward:
9 ducts, 580 feet
Total duct feet
29,790 duct feet and 13 manholes, at 32 cents\$ 9,532 80
102,455 feet of cable for the east and north lines underground, at 16c., 16,392 80
102, 200 feet of capit for the capt and north fines undorgooding, at 10c. 10,002 of
Total for conduits and cable
Total for conduits and cable
Total for conduits and cable
Total for conduits and cable
Total for conduits and cable
Total for conduits and cable
Total for conduits and cable

PALMER PARK.

The transmission line to light Palmer Park will cost \$800.00. This is the only item, the lamps being included in the arc lamp extensions as called for above.

INCANDESCENT LIGHTING.

With the extension of the arc service by the use of enclosed series alternating arc lamps, we will be able to supply incandescent lighting to the same section in which these street lamps will be installed.

And in this connection we wish to call your attention to the large amount of money which is being spent each year by the various city boards and commissions for electric lighting for the buildings in the west end of the city, which is the section of the city most urgently requiring incandescent lights from the municipal plant. For the first five school buildings mentioned below the Board of Education, from Sept. 1, to Dec. 31, 1900, expended \$343.88 for illumination and power, which is at the rate of about \$774.00 per

annum. The Fire Commission estimates that it has expended during the past year about \$400.00 for electric current used in the seven fire buildings enumerated in the following estimates, and the Police Commission, for lighting the Scotten and Vinewood stations during the fiscal year, expended \$220.20. This makes a total of \$1,394.20 paid to private corporations for electric current for these 14 buildings, while the city itself is operating a similar institution, from which we propose to light 16 buildings (including these 14) at an estimated cost of only \$1,000.00. Is this not a strong argument in favor of the allowance of the following estimate for furnishing current to all municipal buildings in the western portion of the city as enumerated below:

SCHOOLS.

NAME.	Dist. Feet.	No. Lts.	No.	Kw.	Cost.	Install Motors and Lts. Cost.	Line Cost.	Operating Cost.	Total Cost. Transformers.
Western High	1,800	527	2	6	\$125 00	\$155 40	\$216 0 0	\$147 60	\$ 644 00
Webster	400	100	2	3	75 00	91 00	88 00	48 96	302 95
Preston	400	70	2	3	7 5 00	224 80	48 00	33 85	381 66
McKinstry	2,500	30	2	11/2	37 50	142 50	330 00	54 40	564 40
Newberry	1,200	200	2	5	100 00	250 80	274 00	72 OC	696 80
Craft	600	100	2	5	100 00	90 00	72 00	43 20	305 20
Gillies	4,500	100	2	5	100 00	90 00	660 00	43 20	893 20

FIRE DEPARTMENT.

E. H., No. 22	3,000	34	1	2	\$20 00 \$	15 00	\$240 00	\$ 57 60	\$ 382 60
E. H., No. 14	400	23	1	11/2	15 00	15 00	44 00	57 60	131 60
E. H., No. 15	60 0	20	1	11/2	15 00	15 00	36 00	57 60	123 60
E. H., No. 4	200	20	1	11/2	15 90	15 00	12 00	57 60	119 60
E. H., No. 10	3,400	20	1	11/2	15 00	15 00	204 00	57 60	291 60
L. H., No. 4	1,000	44	1	2	20 00	15 00	110 00	96 00	241 00
L. H., No. 8	1,000	38	1	2	20 00	15 00	60 00	57 60	. 152 60

POLICE DEPARTMENT.

Vinewood	60 0	28	1	11/2	\$ 15 00	\$ 15 00	\$ 76 00	\$ 57 6 0	\$ 163 60
Scotten		80	1	11/2	15 00	15 00	••••	57 60	87 60
Sub-feeder to Michi-									
gan avenue									1,196 00

Total for installing and operating first year......\$6,628 00

With the proposed additions to our incandescent output our load daily,
except Sundays, will be nearly 200 KW., which is the capacity of each of
the five triple engines we now have. In order to equip one of these for day
lighting we would have to purchase alternating enclosed arc lamps to take
the place of the direct current lamps now being run by the engine so altered,
the cost of which change is:
One 200 KW. alternating dynamo\$ 5,000 00
400 enclosed alternating arc lamps, at \$22.00 8,800 00
Instruments and installing 200 00
A total of\$14,000 00
The 4 dynamos and 400 direct current arc lamps discarded will sell for 2,000 00
Making out account of outlinests day about a section of the sectio
Making net amount of estimate for changing one triple engine to
operate both incandescent and arc lighting service
RECAPITULATION.
RECAPTIONATION.
For station betterment, the net cost of changing one triple engine
set and four arc dynamos to alternator direct connected to
same engine 12,000 00
For putting 18 locations now on overhead lines on the underground
mains, including new laterals, cables and lamp posts 2,840 00
For extension of street lighting by 407 lamps 22,271 00
For operating 407 lamps for nine months
For extension of street lighting by 200 additional lamps, making 607
in all asked for
For operation of 200 additional street lights for nine months 6,405 00 For extensions of conduit system, and putting east and north main
line feeders underground, same as west side now is
For Belle Isle Park extension, exterior and interior lighting 6,600 00
For Palmer Park extension, feeder only
For running feeder for incandescent lighting to 7 schools, 7 fire engine houses and 2 police stations in west end of city 5,628 00
For operating 1,382 lights in above 16 buildings
Total for extensions, betterments and for operating extensions\$107,308 76
Total for operating and maintaining present plant 106,050 00
Grand total
Grand total

We have the honor to be,

Yours respectfully,

FREDERICK F. INGRAM,
HAMILTON CARHARTT,
JAMES E. DAVIS,
EDGAR H. McCURDY,
DAVID W. SIMONS,
JOHN ERHARD,
Public Lighting Commissioners.

COMMISSIONERS PARKS AND BOULEVARDS.

Hon. F. A. Blades, City Controller:

Dear Sir: In compliance with your request of January 7, I herewith enclose you as per direction of the Commissioners of Parks and Boulevards, the estimates for the fiscal year ending June 30, 1902, as adopted by the board January 14, 1901. Also enclosed I send you the statement of expenditures from July 1, 1900, to January 1, 1901, under the heads of the appropriation.

Under the appropriation for the last fiscal year, an error was made in the number of one bridge. An appropriation was received of \$6,000 for bridge No. 11 and it should have been bridge No. 10; therefore in printing your statement both for the estimators and the Common Council, please take notice of this fact.

Respectfully yours,
M. P. HURLBUT,
Secretary and General Manager,

GENERAL MAINTENANCE.

Administration— Maintaining office, rent, stationery, printing, postage, salary of secretary and general manager, general superintendent, bookkeeper, stenographer, incidentals, etc......\$ 9,800 00 Engineering Department-Salaries, instruments, supplies, preliminary plans, etc...... 2,500 00 Telephones-City office, Belle Isle, Palmer Park, city barn, repair of private line, etc..... 295 00 Greenhouse Department-Stock, labor, planting, fuel, etc..... 8,000 00 Tools and Implements-Purchase and repair..... 3,000 00 Two Steam Road Rollers-Final purchase payment of 12,ton roller..... 498 00

Stone Crusher—	070.00
Engineer, repairs, fuel, etc	950 00
Barns, Horses and Vehicles—	
Forage, care of horses, repairs to harnesses and vehicles, barn supplies, rent of city barn, etc	13,300 00
Insurance—	
Buildings to insure of park system	1,600 00
Nursery—	
Supplies, labor, fuel for propagating house, stock, etc	2,750 00
Band Concerts—	
Concerts on Belle Isle and Clark Park principally, from June to October	5,465 00
Manure—	0,100 00
Purchase, hauling, storing and composting for fertilizing lawns,	
trees, shrubs, etc	1,500 00
Total general maintenance	F1 000 00
	21,098 UU
Belle Isle Maintenance—	51,098 W
	51,698 W
Belle Isle Maintenance—	51,698 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads,	51, 695 W
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks,	51,698 W
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoo-	
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00 500 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00 500 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00 500 00 3,500 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00 500 00 3,500 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00 500 00 8,500 00 1,600 00
Belle Isle Maintenance— General, including grounds, trees, lawns, fields, drainage, roads, walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice waetr drinking fountains and tanks, repair of and painting buildings, bridges, docks, janitresses, care of buildings, athletic grounds, fuel, care of zoological department, overseer's salary, etc	35,000 00 500 00 500 00 3,500 00 1,600 00

Palmer Park and Parkway Maintenance—	
General, including grounds, lawns, trees, shrubs, roads, walks, lakes, swings, bridges, rustic work, plumbing, ice water tanks	
and fountains repairs to buildings, etc	5,000 00
\$700 was asked and only \$500 allowed	700,00
Total Paimer Park and Parkway maintenance\$	5,700 00
Clark Park Maintenance—	
General, including grounds, lawns, trees, shrubs, roads, walks, lakes, swings, rustic tables and benches, plumbing, drainage, ice water fountains, skating lake, repairs to buildings, overseer's	
salary, etc.	2,370 00
Total Clark Park maintenance\$	2,370 00
City Parks Maintenance—	
General, including grounds, walks, lawns, trees, shrubs, fountains,	
Settees, etc	7,000 00 300 00
City Hall lawn, floral display, care of, etc	100 00
City parks, caretakers for Boston, Cadillac, Campau, Capitol. Cass	200 00
City Hall lawn, Clinton, Crawford, Elton, East Grand Circus,	
West Grand Circus, Harmonie, Macomb, Medbury, Opera House	
Lawn, Owen, Perrien, Recreation, Stanton, Washington and	
West, 16 caretakers; total number of hours, 25,024, at the rate of	•
\$1 50 per day of eight hours	4,692 00
Total city parks maintenance	12,092 00
Boulevard Maintenance—	
General, including lawns, walks, trees, shrubs, drainage, fountains,	
Water system, hydrants, roads, intersections, sprinkling, etc\$	8,000 00
Caretakers from April 15 to November 20, 9 caretakers; total number	
of hours, 17,739, at rate of \$1 50 per day of eight hours	3,326 00
Two mounted patrolmen, total days 730, at \$2 00 per day	1,460 00
Repairing roadways and intersections	3,000 00
Keeping grass plats cut as lawns	3,200 00
	

Total Boulevard maintenance...... 18,996 00

CITY CONTROLLER.

IMPROVEMENTS GENERAL.

Horses—	
Purchase of	2,500 00
Harnesses—	
Six sets work, 2 single and 2 single truck harnesses and 12 collars	58Ò 00
Wagons—	
Six work wagons to purchase	500 00
Sprinkling Wagons—	
Four sprinkling wagons to purchase	1,800 00
Dump Carts—	
Dump carts to purchase and repair	250 00
Hose Carts—	
Hose carts to purchase and repair	150 00
Automobile—	
To purchase automobile for general superintendent	750 00
Cobblestone—	
For general use to be taken from the Board of Public Works when	
streets are repaved	1,500 00
Storage Yard—	
To purchase site for central storage yard and erect barn and office that long hauls to Belle Isle for storage purposes may be avoided.	
and to save rent of city barn, etc	15,000 00
Floral Decorations—	
To supply floral decorations on the grounds of other municipal	
boards	500 00
Greenhouses—	
To add ranges Nos. 1, 7, 8 and 9 to the new greenhouse plant to avoid	
the necessity of spending from \$1,000 to \$2,000 in repairing the old	44.500.00
greenhouse ranges	14,000 00
Truck— One double truck with windlass attached	996 00
	826 00
Total general improvements\$	38,335 00

BELLE ISLE IMPROVEMENTS.

Roads and Walks-

There are on Belle Isle, including Vista avenue and roads west, more than 100,000 square yards of roadway to be resurfaced, which would cost more than \$60,000, figuring on a basis of taking the cobblestone from the public streets at practically the hauling of it, while, if the stone were purchased, this cost would be largely

cobblestone from the public streets at practically the hauling of it, while, if the stone were purchased, this cost would be largely	
increased.	
Resurfacing and construction of a portion	15,000 00
Cable—	
Telephone cable to be laid in conduits from the transformer house to the barns	2,100 00
Ice House—	
To build one ice house and complete present one	2,370 00
Bridges—	
No. 11, near Inselruhe dock, to erect, stone or iron	3,600 00
No. 13, over Nashua Canal, east of barn, to crect, stone or iron	4,000 00
No. 16, over outlet to Lake Okonoka, on Woodside Drive, to erect, stone or iron	3,600 00
No. 18. on Lakeside Drive, over inlet to Lake Okonoka, to erect,	-,
stone or iron	5,500 00
Barns-	
To complete present barns	19,000 00
Shed—	
To erect shed for wagons and farm tools to protect them from the	
elements	5,000 00
Athletic Field—	
Construction of, including tiling, leveling, seeding, sprinkling pipe	
system to save hose, track, baseball diamonds, football grounds,	E 000 00
lawn tennis court, croquet grounds, etc	, 5,000 00
To finish the deepening of Lake Takoma	4,000 00
Cut back banks of Marsh Run and to dredge inlet for the purpose	4,
of causing a current	2,425 00



CITY CONTROLLER.	295
To clean out Loop Canal and dredge outlet	3.150 00
To clean out Nashua Canal, which is 6,000 feet long	6,000 00
To riprap lakes and canals	500 00
To repair lily pond	600 00
To riprap a portion of the west shore of Belle Isle to protect it where	•
it is washing away	200 00
To slope banks of south shore of Belle Isle to protect them and avoid	
riprapping	800 00
New Ferry Dock-	• 1.
To erect a permanent ferry dock on the south side of Belle Isle, near	
the intersection of Picnic Way and The Strand, as the present	
ferry dock is fast decaying, and if new dock is not provided,	
extensive repairs will be necessary on the old ferry dock	20,000 00
Music Stand—	-
To erect a music stand near bridge No. 7	2,500 00
Toilet Building-	*
To erect stone tollet building for women north side Central avenue,	
opposite ostrich shelter	2,500 00
To erect men's toilet building near northwest corner Central avenue	
and Inselruhe Road	2,500 00
Phaeton-	
Purchase one long, light phaeton to care for traffic across Belle Isle	
bridge	550 00
Phaeton Harnesses—	-
To purchase seven sets of phaeton harnesses to replace old and	
worthless ones	700 00-
Zoo Department—	
To rearrange paddock and erect shelter for deer, moose and other	
animals	4,750 00
To prepare lagoon and build shelters for water animals	· 800 00
Purchase of animals and to build, repair and paint cages, etc	4,000 00
To paint fence around buffalo, deer, elk, moose and ostrich paddock.	440 00
Water System—	
Main water system to be continued around the southeast end of	
Belle Isle and through the main woods for fire protection to the	
forest	9,740 00

Hydrants at various points on main thoroughfares to facilitate road sprinkling and save distance in hauling water	350 00
Shut-off gates on hydrants of main water system to avoid shutting	300 00
off of entire water system when a single hydrant is out of order	200 00
To extend sprinkling pipe system in lawns to save hose and to facil-	200
itate watering of lawns, trees, etc	1,000 00
Fountains—	
Ice water drinking fountains to replace old, worthless and unsani-	
tary ice water tanks	750 00
Speedway-	
To construct speedway on north side of Belle Isle, between yacht	
clubs	4,200 00
Slag—	
For the purpose of securing slag from furnaces when available and	
at times when Park Board teams are not busy, for foundations	
of roads, walks, etc	500 00
Settees and Swings-	
To purchase, repair, paint, etc	750 00
Trees and Shrubs-	
Purchase and planting to replace dead ones and further extend land-	
scaping, etc	1,500 00
Bath House-	
To purchase and install laundry apparatus	250 00
To varnish and paint inside bath house	675 00
To put new and straighten old spiles around basin, repair runways	
to basins, to erect fence between men's and women's basin	460 00
Boat House-	
To build new platform or dock at east end of boat house	100 00
Buildings—	•
Casino, to paint outside and varnish inside	985 00
Casino, new steps, repaid veranda on west side, new shingle roof	
and gutters for veranda	470 00
Skating pavilion, paint outside and varnish inside	675 00

Skating pavilion, repair foundation and other general repairs to	
building and dock	2,500 00
Inselruhe, painting, repairs, papering, etc	500 00
For the erection of dwelling houses for overseers	7.000 00
Athletic dressing shelter, to paint	80 00
Horse shelter, to paint	500 00
Bicycle renting pavilion, new foundation, repairs and paint	900 00
Picnic pavilion, near Detroit Yacht Club, repair, paint and concrete	
floor	900 00
Men's toilet building, southeast of Central avenue bridge, to paint	100 00
Women's brick and stone toilet pavilions to repair and paint wood-	
work	85 00
Barn office and harness rooms, to paint and new floor in office	200 00
Shelter ferry dock, to repair	1,000 00
Shelter ferry dock, to paint	1,100 00
Rustic Stands—	
Rustic Stands—	
Tables, seats and stands to repair or make new	250 00
Rustic Bridge—	
New rustic bridge over lily pond	100 00
Storage Cellar—	
To erect storage cellar, frost proof, for storing plants, bulbs, roots,	
eto	850 00
Machinery—	
Motor to run machinery at carpenter shop	350 00
Rip and crosscut saw, tilting iron table	225 00
Band saw	140 00
Grounds—	
To prepare grounds in front of the proposed aquarium and horticul-	
tural building, such as walks, lawns, flower beds, grading, land-	
scaping, etc	5,000 00
Sewer-	
To construct sewer along portions of Central avenue, between	
Vista avenue and Picnic Way	1,360 00
Total Belle Isle improvements	.67,820 00

PALMER PARK IMPROVEMENTS.

General—	
Including roads, walks, lawns, lakes, bridges, sprinkling system,	
tiling, sewerage, landscaping, trees, shrubs, and to continue the	A 700 AN
collection of plants for the arboretum, etc	6,500 .00
Buildings—	
New shingle roof and repairs to log cabin, painting, etc	250 00
To erect women't toilet building between log cabin and picnic grounds, there being no convenience of this kind near the log	
cabin	2,500 00
Conduits—	
To extend conduits before lawns are finished, preparatory to lighting	
park by electricity	625 00
Total Palmer Park improvements\$	9,875 00
PALMER PARKWAY IMPROVEMENTS.	
General—	
Including walks, lawns, drainage, landscaping, etc\$	1,000 00
Total Palmer parkway improvements\$	1,000 00
CITY PARKS IMPROVEMENTS.	
Boston Parkway—	
Lawns, trees, shrubs, etc\$	150 00
Cadillac—	
Walks, lawns, planting, etc	100 00
Changing walks around cannon	126 00
Campau—	
Bringing lawns to established grade, walks, sodding, planting, etc.	500 00
Capitol—	
Walks, lawns, trees, shrubs, etc	50 00
City Hall Lawn—	
Sodding lawns, etc	100 00

CITY CONTROLLER.	299
Clinton—	
Walks, lawns, trees, etc	50 00
Cass—	
Walks, lawns, trees, shrubs, etc	500 00
Clark—	
General, including grounds, lawns, walks, trees, shrubs, concreting bottom of lake, water display, etc	5,000 00
Crawford—	
Walks, lawns, planting and concrete walk east and west across the park, the walk being a thoroughfare, etc	285 00
Elton—	
Walks, lawns, planting and to construct concrete walk east and west across the park, the walk being a thoroughfare, etc	285 00
Grand Circus—	
Trees, lawns, walks, etc	500 00
oughfares	3,618 00
Ice water drinking fountain for east side	350 00
Harmonie—	
Lawns, planting, etc	100 00
Macomb—	
Lawns, planting, etc	100 00
Medbury—	
Walks, lawns, trees, shrubs, water system to save hose, etc	500 00
Opera House Lawn-	
Completing grounds around fountain, etc	150 00
Owen—	
General, including 1,000 more feet of sheet piling to the end that	
three acres will be added to the park when filled, grading, lawns,	= 400 40
sprinkling pipe system, etc	5,000 00

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Perrien—	
Walks, lawns, planting, tool shed in ground hidden by shrubbery, to protect tools from theft, etc	1,000 00
Recreation—	
Lawns, planting and concrete walk through park on line with Alexandrine avenue, it being a thoroughfare, etc	200 00
Stanton—	
Walks, lawns, planting and a complete fountain, etc	80 0 00
Second Avenue Parkway-	
Sprinkling pipe system and to connect water system with main under the street, planting and general improvement	1,000 00
Lawns and general improvement	200 00
Washington Parkway—	
Lawns, trees, shrubs, constructing flower beds, etc	1,000 00
West-	
Walks, lawns, planting flower beds, etc	100 00
Total city parks improvements\$	21,258 00
Total city parks improvements\$ BOULEVARD IMPROVEMENTS.	21,258 00
	21,258 00
BOULEVARD IMPROVEMENTS.	21,258 00
BOULEVARD IMPROVEMENTS. Gates— Shut-off gates at hydrants to avoid shutting off large water main	
BOULEVARD IMPROVEMENTS. Gates— Shut-off gates at hydrants to avoid shutting off large water main when hydrants are out of order	
BOULEVARD IMPROVEMENTS. Gates— Shut-off gates at hydrants to avoid shutting off large water main when hydrants are out of order	200 00
BOULEVARD IMPROVEMENTS. Gates— Shut-off gates at hydrants to avoid shutting off large water main when hydrants are out of order	200 00
BOULEVARD IMPROVEMENTS. Gates— Shut-off gates at hydrants to avoid shutting off large water main when hydrants are out of order	200 00 1,280 00
BOULEVARD IMPROVEMENTS. Gates— Shut-off gates at hydrants to avoid shutting off large water main when hydrants are out of order	200 00 1,280 00
BOULEVARD IMPROVEMENTS. Gates— Shut-off gates at hydrants to avoid shutting off large water main when hydrants are out of order	200 00 1,280 00 1,500 00

Fairmount Park—	
General improvement, including grading, seeding, planting, sprink-	
ling pipe system, etc	1,800 00
Dequindre Street Bridge-	
Planking, painting, repairs, etc	450 00
Macadamizing east and west approach and gravel walks	1,450 00
Sidewalk Intersections and Alley Crossings-	
To be laid by city	2,500 00
Sidewalks—	
Construction of, where property owners refuse to build	5,181 00
Roadway Intersections—	
To construct where streets have been opened or ordered opened by	•
the Common Council	1,500 00
Brick Intersection—	
To complete brick intersection at Chene street	480 00
Roadways—	
There are \$20,000 square yards of macadam roadway on the Boule-	
vard, 228,000 square yards of which require resurfacing, which	
should be done at once and while the cobble is being taken from	
the public streets, as by so doing it can be done much cheaper	
than to purchase the stone in the regular way. Figuring on this	
basis, it would cost \$91,300 00. To do a portion where most re-	
quired	15,000 00
Retaining Wall-	
To construct wall on east side of Jefferson avenue bridge approach	
to Belle Isle to protect embankment from falling on private prop-	
erty	16,517 00
Cut Back Lawns—	
At southwest corner of Chene and the Boulevard	150 00
At northeast and northwest corners of Shady Lane and the Boule-	
. verd	ı 25 0 00
At the north and south side of the center lawns and macadam the	
roadway at Baker street	1,000 00
Roadways—	
To construct from Twenty-seventh street to the west side of Vine-	
wood avenue, including a brick intersection at Vinewood avenue	
To construct from Buchanan to Visger street	
To construct the east roadway from Mack to Gratiot avenue	15,150 00
Total Boulevard improvements	23 412 00



RECAPITULATION.

Maintenance-

,			
51,698	00		
42,841	00		
5,700	00		
2,870	00		
12,092	00		
18,986	00		
	-4	1133,687	00
\$ 38,336	00		
167.320	00		
9,875	00		
1,000	00		
21,258	00		
83,418	00		
	-	821,200	00
	-	454,893	00
	42,841 5,700 2,870 12,092 18,986 \$ 38,335 167,320 9,875 1,000 21,258 83,418	2,870 00 12,092 00 18,986 00 \$ 38,336 00 167,320 00 9,875 00 1,000 00 21,258 00 83,418 00	42,841 00 5,700 00 2,870 00 12,092 00 18,986 00

Exclusive of net receipts from phaeton and bath-house service, privileges, etc., estimated at \$8,000.

RESOLUTION.

Leave being granted, the following was offered:

By Ald. Barrie:

Resolved, That so much of the annual estimates as refers to the General Road and Repaving funds be referred to the Committee on Streets; the Public Sewer fund to the Committee on Sewers; the Belle Isle Bridge to the Committee on Bridges; the Eastern and Western Market funds to the Committee on Markets; the Public Health fund and Garbage fund to the Committee on Health; the Street Opening fund to the Committee on Street Openings; the Recorder's Court fund to the Committee on Judiciary; the Public Building fund to the Committee on Public Buildings; the Fire Commission fund and the Fire Department Retired and Pension fund to the Committee on Fire Limits; the Park and Boulevard Fund to the Committee on Parks and Boulevards; the Public Lighting fund to the Committee on Public Lighting; and the balance of the estimates to the Committee on Ways and Means.

Adopted.

PROCEEDINGS OF THE COMMON COUNCIL.

(March 12, 1901.)

To the Honorable the Common Council:

Gentlemen—A property owner on the south side of Gratiot avenue, between Farmer and Farrar streets, is preparing to replace his old building with a new and modern one; and discovering that the sewers in the alley were several feet too shallow for the drainage of the proposed new building, asked the Board to submit an estimate to the Common Council for a sewer in Gratiot avenue from Hudson's corner to a point 230 feet east The Engineer has prepared an estimate, as follows:

For a public sewer in Gratiot avenue, from near Hudson's store to a point 280 feet east; 18-inch vitrified crock; 280 feet at \$3 50 per foot...\$980 00 Inasmuch as this sewer, if it be built, will be somewhat in the nature of a contingency, no money having been appropriated for it, and the public sewer fund being unable to stand an expenditure of this amount at this time, some provision will have to be made for the payment of same.

Respectfully submitted,

J. W. MILLEN, H. KALLMAN,

MARSHALL H. GODFREY.

Accepted and referred to the Committee on Sewers.

(March 19, 1901.)

FROM THE BOARD OF EDUCATION.

To the Honorable the Common Council:

Gentlemen—I am directed by the Board of Education to transmit to the Common Council supplemental estimates for the fiscal year beginning July 1, 1901, as follows:

Very respectfully,

L. H. CHAMBERLIN,

Secretary.

Accepted and referred to the Committee on Ways and Means.

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ANNUAL REPORT OF THE

To the Honorable the Common Council:

Gentlemen—Herewith find two supplemental estimates, one from the Park and Boulevard Commission for \$1,000, and the other from the Board of Health for \$300.

I recommend the reference of the former to the Committee on Parks and Boulevards, and the latter to the Committee on Health.

Respectfully,

F. A. BLADES,

Controller.

Accepted, the following is the matter above referred to:

To the Honorable the City Controller:

Dear Sir—By action of the Commissioners of Parks and Boulevards at a regular session held March 11, I was directed to submit to you the following supplementary estimate:

Supplementary estimate:

Elton Park-

M. P. HURLBUT.

Secretary and General Manager.

Hon. F. A. Blades, City Controller:

Dear Sir—In making out statement of supplemental estimate of the Board of Health, in the item of "Day Janitor," the amount should have been \$660 instead of \$360. This was a clerical error; will you please rectify the same?

Respectfully submitted,

THE BOARD OF HEALTH, By JOHN F. McKINLAY,

Secretary.

The recommendation of the Controller was then concurred in.

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(March 26, 1901.)

To the Honorable the Common Council:

Gentlemen—In compliance with the resolution of Ald. Beamer, adopted at the last session of your honorable body, the Board of Public Works begs leave to submit two repaying estimates, as follows:

Baltimore avenue, from Woodward avenue to Brush street, with

sheet asphalt on concrete foundation......\$10,190 00

Horton avenue, Woodward avenue to Oakland avenue, with sheet

asphalt on concrete foundation...... 20,010 00

Respectfully submitted,

J. W. MILLEN,

H. KALLMAN,

MARSHALL H. GODFREY.

Accepted and referred to the Committee on Streets.

(March 29, 1901.)

FROM THE CONTROLLER.

To the Honorable the Common Council:

Gentlemen—As authorized by an act of the Legislature, approved March 28, 1901, and in accordance with a resolution of your honorable body, I submit a supplemental estimate of \$25,000 for the public entertainment fund in addition to the \$2,000 already asked for. Said \$25,000 to be used for defraying the costs and expenses of the celebration of the two hundredth anniversary of the founding of Detroit.

Respectfully,

F. A. BLADES. Controller.

(April 2, 1901.) FROM THE CONTROLLER.

To the Honorable the Common Council:

Gentlemen—In accordance with a resolution of your honorable body, I herewith transmit a supplemental estimate for the purchase of voting machines as follows.

General fund-

For the purchase of voting machines.......\$35,000

Respectfully,

F. A. BLADES. Controller.



FROM THE BOARD OF PUBLIC WORKS.

To the Honorable the Common Council:

Gentlemen—In compliance with resolutions of your honorable body, adopted at the session of March 29, the Board of Public Works begs to submit repaying estimates, as follows:

For repaying Atwater street, from Riopelle to Dequindre, and from
Dequindre to W. L. Dubois farm, with block brick on concrete
foundation (both sections)\$11,446
For repaving Atwater street, from Riopelle to Dequindre, and from
Dequindre to W. L. Dubois farm, with granite blocks on concrete
foundation (both sections):
New blocks

Respectfully submitted,

J. W. MILLEN, H. KALLMAN, MARSHALL H. GODFREY.

(April 3, 1901.)

FROM THE BOARD OF PUBLIC WORKS.

To the Honorable the Common Council:

Gentlemen—In compliance with the resolution of your honorable body, adopted April 2, 1901, the Board of Public Works herewith transmits an estimate for repaying Hancock avenue, as follows:

Respectfully submitted.

J. W. MILLEN, H. KALLMAN, MARSHALL H. GODFREY.

(April 4, 1901.)

FROM THE CONTROLLER.

To the Honorable the Common Council:

Gentlemen—Referring to the resolution of Ald. Tossy, requesting the Controller to submit a supplemental estimate of \$1,500 for the purpose of employing an inspector of elevators for the fiscal year, I herewith submit said supplemental estimate of \$1,500 for the purpose of paying for the service of an inspector of elevators for the City of Detroit for the coming fiscal year, said estimate to be placed in the general fund.

Respectfully,

F. A. BLADES, . Controller.

FROM THE BOARD OF PUBLIC WORKS.

To the Honorable the Common Council:

Gentlemen—The Board of Public Works herewith submits an estimate of the cost of repaying Smith avenue, from Woodward avenue to Oakland avenue, with sheet asphalt, in compliance with the resolution adopted March 26, 1901, as follows:

> J. W. MILLEN, H. KALLMAN, MARSHALL H. GODFREY.

FROM THE BOARD OF PUBLIC WORKS.

To the Honorable the Common Council:

Gentlemen—The Board of Public Works herewith submit estimates of the cost of resurfacing with cedar blocks all streets recommended by the Common Council and Council Committee for repaying, as requested by resolutions of Ald. Reinhardt, adopted April 3:

Cass, Holden to Amsterdam	\$ 8,631
John R., Adelaide to Brady	3,875
Randolph. Congress to Monroe	2,825



Amsterdam, woodward to Cass	59
Eighteenth and One-half, Fort to River	85
Farmer, Monroe to Wilcox	1,14
Foundry, Michigan to Baker	4,07
Larned, Third to River	1,36
Madison, Beaubien to St. Antoine	76
Park place, Michigan to State	37
Russell, Forest to Ferry	3,71
Tenth, Lafayette to River	1,12
Warren, Woodward to Cass	73
Alexandrine, Woodward to Cass	1,36
Ash, Grand River to Trumbull	82
Atwater, Riopelle to W. L. Dubois farm	3,077
Beaubien, Adams to Brady	4,72
Brush, Elizabeth to Brady	5,49
Dubis, Jefferson to Monroe	2,241
Elizabeth, Cass to Grand River	480
Field, Jefferson to, Champlain	1,670
Fiftrenth, Michigan to Myrtle	4,420
Fifth, Lafayette to Michigan	2,218
Fifth, Grand River to Noble	2,176
Forest, Woodward to W. L. Brush farm	1,300
Franklin, Dequindre to Chene	2,614
Hancock, Greenwood to Trumbull	1,957
Labrosse, Fourth to Trumbull	2,730
Myrtle, Boulevard to Twenty-fifth	598
Mt. Elliott, Waterloo to Kerchevaii	1,150
National, Bagg to Michigan	3,290
Orleans, Champlain to Gratiot	
Piquette, Hastings to Russell	1,708
Selden, Woodward to Second	2,240
Twenty-fourth, Michigan to Hancock	7,137
Walker, Jefferson to River	
	-,
SUPPLEMENTAL LIST.	
Raynor, Gratiot to Chinton\$	509
Gratiot, Woodward to Miami	1,200
Name Want to Ladounts	

Rowland, Michigan to Grand River.....



Clinton, Brush to Hastings	1,490
Beaubien, Brady to Canfield	1,904
Fourth, Grand River to Brainard	3,894
Elizabeth, Hastings to Stroh's alley	558
Warren, Twelfth to Lincoln	1,856
Twelfth, Grand River to Putnam	8,970
Calumet, Grand River to Commonwealth	1,750
Merrick, Twelfth to Lincoln	2,360
St. Aubin, Gratiot to Canfield	7,330
Seventeenth, Michigan to M. C. R. R	2,415
Grandy, Forest to Chene	8,645
Maybury Grand, Michigan to Butternut	1,099
Twenty-fourth, River to Baker	4,635
Twenty-fourth, Merrick to McGraw	2,632
Maybury Grand, Butternut to Myrtle	1,780
Myrtle, Humboldt to Twenty-fifth	
Mt Elliott, Mack to Gratiot	1,978
Waterloo, Jos. Campau to Mt. Elliott	3,525
Vinewood, Buchanan to Mohawk	2,125
Helen, Jefferson to Champlain	1,716
Meldrum, Jefferson to Kercheval	
Junction, Dix to R. R	5,437
Champlain, Boulevard to Baldwin	
Baltimore, Woodward to Brush	1,954
Woodbridge, Woodward to Hastings	4,239
Leland, Beaubien to Hastings	1,582
Willis, Woodward to W. L. Brush farm (cost of removing cobblestones	
and substituting No. 2 cedar blocks in place thereof	12,503
Columbia, Woodward to Park	665
Hancock, Trumbull to Twelfth	1,781
Horton, Oakland to Woodward	3,863
Eliot, Brush to Hastings	2,145
Winder, Brush to St. Antoine	1,233
Jones, First to Third	917
Rivard, Eliot to Canfield	3,557
Brooklyn, Noble to Brainard	1,035
Waterloo, Jos. Campau to Gratiot	4,045
Humboldt, Ash to Buchanan	4,215
Seventeenth, R. R. to Howard	3,5%
Wabash, Locust to Baker	3,106

CITY CONTROLLER.

369

Jos. Campau, Clinton to Monroe	870
Macomb, Chene to McDougall	2,338
Macomb, McDougall to Elmwood	1,155
McGraw, Twenty-fourth to Grand River	3,068
Twenty-first, Fort to Porter	2,480
Respectfully submitted	

J. W. MILLEN. H. KALLMAN, MARSHALL H. GODFREY.

By Ald. Koch:

Resolved, That an estimate of \$500 be included in the General Road Fund for the purpose of beautifying the foot of Jos. Campau avenue.

Referred to the Committee of the Whole,

FROM THE CONTROLLER.

To the Honorable the Common Council:

Gentlemen-In compliance with a resolution of your honorable body, I herewith transmit an estimate for the purpose of erecting a public bath house.

Public Building Fund-

To erect a public bath house......\$15,000

Respectfully.

F. A. BLADES. Controller.

FROM THE CONTROLLER.

To the Honorable the Common Council:

Gentlemen-At the request of the President of the Board of Water Commissioners, I herewith transmit estimates for the purpose of paying for water used in the City Hall, Municipal Court building, markets., etc., during the coming fiscal year, the estimate for the same having been cut out by the Board of Estimates last year; also for the purpose of furnishing water to the Street Railway Company for sprinkling between tracks in accordance with the provisions of an ordinance adopted June 29, 1897; also for water for sprinkling around public places, on streets about to be swept by machines, and on newly paved streets, in accordance with a communication of the Water Commission submitted to the Common Council by the Board of Public Works, June 5, 1900:

General Fund-To pay for water used in City Hall, M. C. building,
Markets, etc., from April 1, 1900, to April 1, 1901\$1,052 18
General Road Fund-For water for sprinkling street car tracks from
July 1, 1900, fo June 30, 1901
For water for sprinkling around public places, on streets about to be
swept by machines, and on newly paved streets, from July 1, 1900,
to June 30, 1902 600 00
Respectfully,

F. A. BLADES, Controller.

(April 5, 1901.)

FROM THE CONTROLLER.

To the Honorable the Common Council:

Gentlemen—I understand your honorable body propose to make the appropriation for school buildings and sites by issue of bonds amounting to \$309,000. A bill now before the Legislature, which has been approved by the Common Council, provides that for all bonds issued, seventy-five per cent shall be raised during the term of the bonds, which for 30 year bonds is two and one-half per cent per annum. Whether this bill passes or not, the Common Council has authority to levy a tax of not exceeding \$10,000 per annum for the purposes of the sinking fund, and I therefore submit an estimate of 2½ per cent of \$309,000, for the sinking fund, and also for 2½ per cent of \$42,000 for the sinking fund, being the amount, I understand, it is proposed to issue bonds for for the addition to Clark Park. The following are the estimates:

> F. A. BLADES, Controller.



FROM THE CONTROLLER.

To the Honorable the Common Council:

Gentlemen—I am in receipt of the following supplemental estimate from the Commissioners of Parks and Boulevards, amounting to \$6,000, which I respectfully submit to your honorable body.

Respectfully.

F. A. BLADES. Controller.

Accepted.

The following is the estimate:

To the Honorable the City Controller:

Dear Sir-I am directed by the Commissioners of Parks and Boulevards to submit the following supplemental estimate:

Water Rent-

> M. P. HURLBUT, Sec'y and Gen'l Mngr.

(April 30, 1901.)

FROM THE BOARD OF ESTIMATES.

To the Honorable the Common Council:

Gentlemen—As provided by the charter of the City of Detroit, we hereby certify that the proceedings of the Board of Estimates herewith transmitted is the result of the deliberations of said Board.

Very respectfully,

RICHARD LINDSAY,

JOHN A. SCHMID,

President.

Secretary.

Accepted.

The following is the matter abovve referred to:

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Sixth Ward-

REPORT OF COMMITTEE OF THE WHOLE.

To the Honorable the President of the Board of Estimates:

Sir—Your Committee of the Whole, to whom was referred the estimates for the fiscal year, 1901, beg leave to report that the same have received careful consideration and would recommend the adoption of the resolution herewith submitted.

Very respectfully,

JAMES B. McKAY.

Chairman.

Accepted.

The following is the resolution:

By Estimator McKay:

Resolved, That the estimates for the maintenance of the several municipal departments of the City of Detroit for the fiscal year, ending June 30, 1902, be and are hereby allowed for the purposes and in the amounts as herein below specifically set forth:

SINKING FUND.

21/4 pc	er cent	of	\$155,000	Public	School	bonds\$	3.875 0	0
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INTEREST FUND.

One year's interest on \$4,288,000, at 4 per cent	170,720 0	0
One year's interest on \$100,000, at 3.65 per cent	3,650 0	0
One year's interest on \$356,000, at 3½ per cent	33,46 0 0	0
One year's interest at 31/2 per cent on \$250,000 Public School bonds,		
issued July 1, 1900, for which no appropriation was made	8,750 0	0
_		-

GENERAL FUND.

Common Council-

Thirty-four	· Aldermen	at \$1,200	each\$	40,800 00
Messenger	boy, \$3 per	session,	52 sessions	156 00

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Mayor'	s (Offic	:e
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Mayor	5,000 00
Mayor's Secretary	2,000 00
Stenographer	1,200 00
Messenger	300 00
Control of Control	
Controller's Office-	
Controller	3,000 00
Deputy Controller	2,000 00
Chief Clerk	1,320 00
Bookkeeper	1,320 00
Entry Clerk	1,210 00
Two clerks, \$1,034 each	2,068 00
Assistant Clerk, \$40 per month	480 00
City Clerk's Office—	
City Clerk	3,500 00
Deputy City Clerk	2,000 00
Chief Clerk	1,500 00
Three clerks, \$1,200 each	3,600 00
Messenger, \$25 per month	300 00
,	
City Tressurer's Office—	4 000 00
City Tressurer's Office—	4,000 00
City Tressurer's Office— City Treasurer Deputy City Treasurer	2,000 90
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster	
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper	2,000 90
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster	2,000 90 1,500 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper	2,000 90 1,500 00 1,320 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department.	2,000 90 1,500 00 1,320 00 1,320 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each.	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month.	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office—	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 480 00
City Treasurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office— Receiver of Taxes.	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 480 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office— Receiver of Taxes. Assistant Receiver of Taxes.	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 480 00 3,000 00 2,000 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office— Receiver of Taxes. Assistant Receiver of Taxes. Bookkeeper	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 480 00 3,000 00 2,000 00 1,320 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office— Receiver of Taxes. Assistant Receiver of Taxes. Bookkeeper Special Assessment Clerk. Chief Clerk	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 490 00 3,000 00 2,000 00 1,320 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office— Receiver of Taxes. Assistant Receiver of Taxes. Bookkeeper Special Assessment Clerk. Chief Clerk Nine regular clerks, \$1,034 each.	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 480 00 3,000 00 2,000 00 1,320 00 1,320 00 1,200 00
City Tressurer's Office— City Treasurer Deputy City Treasurer Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office— Receiver of Taxes. Assistant Receiver of Taxes. Bookkeeper Special Assessment Clerk. Chief Clerk Nine regular clerks, \$1,034 each. Extra clerical help during tax-paying months.	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 480 00 3,000 00 2,000 00 1,320 00 1,320 00 1,320 00 1,320 00 9,306 00
City Tressurer's Office— City Treasurer Deputy City Treasurer. Paymaster Bookkeeper Chief Clerk, back tax department. Five clerks, \$1,034 each. One Assistant Clerk, \$40 per month. Receiver of Taxes' Office— Receiver of Taxes. Assistant Receiver of Taxes. Bookkeeper Special Assessment Clerk. Chief Clerk Nine regular clerks, \$1,034 each.	2,000 90 1,500 00 1,320 00 1,320 00 5,170 00 480 00 3,000 00 2,000 00 1,320 00 1,320 00 1,320 00 1,320 00 1,320 00 6,000 00

Board of Assessors-

Three Assessors, each \$2,500	7,500 00
Three Assistant Assessors, each \$1,500	4,500 00
One Chief Clerk	2,000 00
One Description Clerk	1,500 00
One Draughtsman	1,034 00
One Map Clerk	1,034 00
One Tax Commission Clerk	1,034 00
One Record Clerk	1,034 00
Thirteen Clerks, each \$1,034	13,442 00
Law Department—	
Corporation Counsel	5,000 00
Chief Assistant Corporation Counsel	3,000 00
One Assistant Corporation Counsel	2,500 00
Two Assistant Corporation Counsels, each \$1,800	8,600 00
One Chief Clerk	1,200 00
One Clerk	1,000 00
One Stenographer	600 00
One Street Opening Clerk	1,084 00
Messenger	300 00
Chief Accountant's Office—	
Chief Accountant	2,250 00
Office of Secretary of Common Council Committees-	
Secretary	1,200 00
Messenger	300 00
Store and Record Rooms—	
Storekeeper	1,034 00
Clerk of Record Room, \$13 days at \$3 30	1,032 90
Board of Building Inspectors—	
Three Building Inspectors, each \$1,200	3,600 00
Boiler Inspectors' Office—	
Boiler Inspector	1,600 00
Two assistants, each \$1,000	2,000 00
One clerk	1,034 00

City Physicians' Office—	
Five City Physicians, each \$1,000	5,000 00
Officers of Police Court—	
Two Police Justices, each \$3,000	6,000 00
Clerk of Court	1,800 00
Three deputy clerks, each \$1,200	3,600 00
Market Clerks—	
Clerk of Market, Eastern District	900 00
One Assistant Market Clerk, Eastern District, 313 days at	
\$2 00 (as per resolution of Common Council, February 5,	
1901)	626 00
Clerk of Market, Western District	900 00
City Hay Scales—	
Two Weighmasters, each \$720	1,440 00
City Pounds and Wood Markets-	
Two Poundmasters, each \$720	1,440 00
Engineer's Room, City Hall—	
Engineer City Hall	1,200 00
One assistant, 365 days at \$2 75 per day	1,003 75
One assistant, October 1 to May 15, 227 days at \$2 75	624 25
One night engineer, November 1 to May 1, 181 nights at \$2 00	362 00
Janitors of and Cleaning City Hall-	
One Janitor	909 00
One assistant janitor, 313 days at \$2 50	782 50
One assistant janitor, attic, 313 days at \$2	626 00
One assistant janitor, basement, 313 days at \$2	626 00
One janitor men's toilet in basement, 365 days	700 00
One assistant janitor men's tollet, second floor, and assist-	
ant to elevator conductors, 313 days at \$2 50	782 50
One assistant janitor, men's toilet, 3d floor, 313 days at \$1 50	469 50
One janitress, ladies' toilet, basement, 365 days at \$1 50	547 50
One janitress, ladies' toilet, 2d floor, 313 days at \$1 50	469 50
Five laborers, each 313 days at \$1 50	2,347 50

City Hall Elevators-		
Two conductors at \$720	1,440 00	
Municipal Court Building—		
One engineer	1,000 00	
One assistant engineer, 339 days at \$2.75	932 25	
One night engineer, Nov. 1 to May 1, 181 nights at \$2 00	362 00	•
One elevator conductor	720 00	
One janitor	900 00	
One assistant janitor, \$13 days at \$2.50	782 50	
Three laborers, each, 313 days at \$1 50	1,408 50	
Vacations-		
To provide substitutes so as to give each of the following		
employes one week's vacation during the year with full		
pay, viz.: Engineer, assistant engineer, and elevator		
conductors, City Hall; all janitors City Hall, except		
head janitor; engineer, assistant engineer, elevator con-		
ductor, and assistant janitors, M. C. building	232 35	
Board of Estimates—		
Seventeen meetings of Board at \$135	3,315 00	
Total salaries	 **********************************	224,592 50
Dog Pound—		
Two drivers of dog wagons, each \$600	1,200 00	
Impounding dogs	1,200 00	
Food, supplies and fuel	200 00	
Repairs to pound	85 0 00	
One new dog wagon	150 00	
	*	3,100 00
Registration and Election Expenses (Fall Election	, 1901).	
Registration—		
380 registrars, 4 days at \$4\$	5,760 00	
Supplies	300 00	

Election-

720 inspectors at \$6	4,820 00
240 clerks at \$6	1,440 00
120 gatekeepers at \$3	860 00
120 election lists of electors	860 00
120 duplicate registration lists of electors	860 00
Advertising	400 00
Posting notices	125 00
Maps	75 00
Election supplies	800 00
Tally sheets, poll books, etc	750 00
Moving and preparing ballot boxes	300 00
Election Commission	2,500 00
Printing	250 00
Caucus purposes—	
Furnishing stationery, ballot boxes, etc	800 00
Election Houses-	
Putting up, taking down and repairing election houses	1,500 00
42 new election houses	8,000 00
Truck for hauling same	150 00
_	

SUPPLEMENTAL ESTIMATE NO. 1.

Changes which may of necessity have to be made in election districts, which will add six new districts, for which the following estimate is submitted:

(Fall Election, 1901.)

Registration-

18 registrars, 4 days each, at \$4\$	288 00
Supplies	20 00

36 inspectors at \$6.....

216 00

Election-

12 clerks at \$6	72 00	
6 gatekeepers at \$3	18 00	
6 registers of electors	18 00	
6 election lists of electors	18 00	
6 duplicate election lists of electors	18 00	
Election supplies	25 00	
Caucus Purposes—		
Stationery, ballot boxes, printing, etc	25 00	
Total Supplemental Estimate No. 1	\$	718 00
Current Expenses—		
Current Expenses— Cleaning market grounds	810 00	
	810 00 850 00	
Cleaning market grounds		
Cleaning market grounds\$ Ice for Bagley fountain	8 60 00	
Cleaning market grounds\$ Ice for Bagley fountain	350 00 3 00 00	•
Cleaning market grounds\$ Ice for Bagley fountain	360 00 300 00 3,000 00	•
Cleaning market grounds\$ Ice for Bagley fountain	360 00 300 00 3,000 00 1,500 00	•
Cleaning market grounds	360 00 300 00 8,000 00 1,500 00 1,600 00	•
Cleaning market grounds	360 00 300 00 8,000 00 1,500 00 1,600 00 150 00	•
Cleaning market grounds	350 00 300 00 3,000 00 1,500 00 1,600 00 150 00 1,000 00	•

Maps for use of city officials.....

Cleaning and repairing hay scales.....

Fuel for hay markets.....

Flags, awnings and repairs to same.....

Care of City Hall and other clocks.....

Supplies for janitors, engineers and city officers......

Rent of strong box.....

Telegraph and messenger service.....

Transportation, boiler inspector.....

Hauling rubbish from City Hall and M. C. Building......

Laundry and toilet service, City Hall and M. C. Building.

Transportation, assessors.....

250 00

100 00

50 00

150 00

250 00

750 00

225 00

275 00

260 00

225 00

450 00

200 00

Transportation, other city officials	400 00		
Rubber stamps	150 00		
Disinfectants, City Hall and M. C. Building	175 00		
Insurance on elevators	120 00		
Cleaning carpets	50 00		
Gas lighting, City Hall and M. C. Building	150 00		
Rent of Corporation Counsel's office (per lease)	1,716 00		
Water for charitable institutions	1,500 00		
Painting and repairing life preservers and boxes	250 00		
Use of Detroit Bar Library	55 00		
Miscellaneous	700 00		
Total current expenses	\$	17,911 0	0
Museum of Art—			
Authorized by an act of the Legislature, approved June 1st,			
1899		12,000 0	0
Printing and Stationery—			
Official Printing-Council proceedings, notices of tax and			
*special assessment sales and other notices	15,000 00		
Legal Printing-Such matters as are required by law to be			
published in other than the official paper	500 00		
Printing in foreign languages (limited by law to \$3,000 annu-			
ally	3,000 00		
Job Printing-Official reports, special blanks, etc	4,500 00		
Newspapers for office use	1,200 00		
Stationery, bookbinding, etc	6,250 00		
Total printing and stationery		30,450 (10
Supplemental—			
For purchase of voting machines		25,000 ()0
Grand total		341,321	50
Resources-			
Estimated balance July 1st	50,000 00		
Estimated income from rents, licenses, franchises, etc			
Total		\$150,000	00
Total for fund		\$191,321	50

PUBLIC ENTERTAINMENT FUND.
For celebrating 200th anniversary founding of Detroit\$ 25,000 00
GARBAGE FUND.
For the collection and disposal of garbage
STREET OPENING FUND.
To pay the city's portion of the assessment for opening the following streets:
Beaufait avenue\$ 2,043 00
Twenty-third street
King avenue
Fifteenth street 706 79
Theodore street 5,934 49
Stanley avenue 1,227 33
Belvidere avenue
Beaubien street 11,267 50
Twenty-fifth street 347 10
St. Paul avenue 8,496 56
Current expenses, expert testimony, advertising, interest on
unpaid awards, etc 5,000 00
Total
FIRE DEPARTMENT RETIRED AND PENSION FUND.

POLICE PENSION FUND.

GENERAL ROAD FUND.

Labor and material resurfacing wood pavements (see report Committee Board Estimates, also proceedings Common Council)	85,000	00
Labor and material patching wood pavements	10,000	_
Labor and material repairing brick pavements	10,000	00
Labor and material repairing stone pavements	2,500	00
Labor and material repairing asphalt pavements	25,000	00
Lumber, sidewalks, crosswalks, intersections, etc	20,000	00
Hardware, nails, etc	2,500	00
Building new sidewalks (wood)	5,500	00
Repairing wood sidewalks, quick repair wagons	3,000	00
Six sidewalk inspectors	5,615	00
One description clerk	1,034	00
Lumber inspector	600	00
Building and repairing wood crosswalks, intersections and culverts	5,000	00
Building new stone sidewalks	2,500	00
Building new stone intersections	3,000	00
Paving street and alley intersections	25,000	00
Pay rolls, paving inspectors, new streets	2,000	00
Superintendents of commissioners	4,200	00
Labor, stone crosswalks at alley entrances	1,000	
Labor, hauling old material to storage yards	1,000	
Cleaning snow from walks around parks and public buildings	1,000	
Engineers and firemen, road rollers	2,000	00
Coal, supplies and repairs, road rollers	1,000	
Eastern Yard pay rolls, yardmaster, watchmen, laborers	3,000	
Western Yard pay rolls, yardmaster, watchmen, laborers	8,000	00
Inspectors, permits and connections	6,000	00
Repairs to bridges	1.250	00
Repairs to docks	4,000	00
Team for engineer's department	700	90
Stakes and labor setting same	1,200	00
New horse drinking fountains	3 00	00
Labor putting in new, repairing and painting old horse drinking fountains	500	an
Street signs and labor putting up	2,000	
Sprinkling streets	1,500	
Tools and repairs to tools	1,200	00
Plumbing, painting, oil, etc	250	00
Advertising	1,000	00
Printing and stationery	1,800	
Postage and car fare	500	
Asphalt maintenance contracts	35,000	00

Supplemental—			
Water sprinkling street car tracks		800 0	0
TotalLess estimated receipts			
Total fund		\$ 222,44 3 00	0
REPAVING FUND.			
Asphalt—			
Cass, Holden to Amsterdam (sheet)	22,585 00 14,125 00	3 55,710 0 0	0
Brick-			
Amsterdam, Woodward to Cass	2,137 00		
Eighteenth, Michigan to Perry	5,539 00		
Eighteenth and a Half, Fort to River	1,300 00		
Farmer, Gratiot to Wilcox	2,758 00		
Larned, Third fo River Park Place, Michigan to State	4,923 00		
Tenth, Fort to River.	,		
Franklin, St. Aubin to Chene	-,		
_	-,	26,127 00)
Cedar—			
Foundry, Michigan to Baker	10,867 00		
Ash, Grand River to Trumbull	2,205 00		
Beaubien, Erskine to Brady	3,390 00		
Brush, Elizabeth to Brady	•		
Dubois, Jefferson to Monroe	5,976 00		
Elizabeth, Cass to Grand River Field, Jefferson to Champlain	1,280 00 4,454 00		
Fifteenth, Michigan to Myrtle	-		
Fifth, Grand River to Noble	5,804 00		

Hancock, Greenwood to Trumbull	5,219 00	
Myrtle, Boulevard to Twenty-fifth	1,593 00	
Mt. Elliott, Waterloo to Kercheval	3,067 00	
National, Bagg to Michigan	8,775 00	
Twenty-fourth, Railroad to Hancock	6,670 00	
Walker, Jefferson to river	5,645 00	
Total	\$	100,792 0
Supplementary—		
Raynor, Gratiot to Clinton, cedar\$	1,358 00	
Clinton, Brush to Hastings, cedar	3,975 00	
Beaubien, Brady to Canfield, cedar	5,077 00	
Fourth, Grand River to Brainard, block asphalt	22,048 0 0	
Elizabeth, Hastings to alley adjoining Stroh's Brew., brick.	2,131 00	
Alfred, Russell to Riopelle, asphalt block	2,988 00	
Warren, Twelfth to Avery, cedar	1,649 00	
Twelfth, Grand River to Putnam, cedar	10,565 00	
Calumet, Grand River to Commonwealth, cedar	4,670 00	_
St. Aubin, Scott to Canfield, cedar	11,340 00	
Grandy, Forest to Chene, cedar	23,053 00	
Maybury Grand, Michigan to Butternut, cedar	2,931 00	
Twenty-fourth, Merrick to McGraw, cedar	7,017 00	
Maybury Grand, Butternut to Myrtle, cedar	4,747 00	
Myrtle, Humboldt to Twenty-fifth, cedar	9,160 00	
Mt. Elliott, Mack to Gratiot, cedar	5,278 00	
Waterloo, Elmwood to Mt. Elliott, cedar	6,701 00	
Meldrum, Champlain to Kercheval, cedar	8,480 00	
Junction, Dix to R. R., brick	20,790 00	
Champlain, Boulevard to Baldwin, cedar	3,667 00	
Baltimore, Woodward to Brush, cedar		
Total		162,830 0
Grand total		245 450 0
Less estimated balance	······	5,000 0
Total allowed	•	240 450 0

PUBLIC SEWER FUND.

		•
Dubois, from north line Maple to Canfield sewer\$	23,000	00
Helen, from Lambert to Harper	3,938	00
Mt. Elliott, extension to city limits	2,253	00
Michigan, from west line First to east line Fourth	4,803	00
Adair, extension of outlet	10,000	00
Beaufait, from alley south Waterloo to alley south Mack	7,000	00
Repairs to sewer outlets, timber work, etc	1,000	00
Sewer arms	9,000	90
Receiving basins	48,000	00
Team for sewer engineers	700	00
Printing, stationery, etc	300	00
Total	.09,994	00
Less estimated cash balance	4,000	00
-		
Total	05,994	00
PUBLIC BUILDING FUND.		
TOBBIO BOILDING FOND.		
City Hall—		
General repairs to building, furniture, boilers, elevators and closets,		
prior to work of remodeling	1,500	00
Municipal Court Building-		
General repairs to building	1,000	00
Plumbing and closets	200	00
Repairs to boilers and elevators	300	00
Health Building-		
Community of		
General repairs.	100	00
Kalsomining	150	00
		-
Total	9 950	Δ.

BOARD OF PUBLIC WORKS GENERAL FUND.

Secretary Chief clerk. Stenographer Bookkeeper Financial clerk. Permit clerk. Pay roll clerk Record clerk Two sidewalk clerks (\$1,034 each). Meter inspector. Two messengers. City Engineer's Office— City Engineer. First assistant on sewers. Second assistant on streets.		. 14,250
Chief clerk. Stenographer Bookkeeper Financial clerk. Permit clerk. Pay roll clerk Record clerk. Two sidewalk clerks (\$1,084 each). Meter inspector. Two messengers. City Engineer's Office— City Engineer. First assistant on sewers. Second assistant on streets.		14,250
Stenographer Bookkeeper Financial clerk. Permit clerk. Pay roll clerk Record clerk. Two sidewalk clerks (\$1,084 each). Meter inspector. Two messengers. City Engineer's Office— City Engineer. First assistant on sewers. Second assistant on streets.		3 14,250
Bookkeeper Financial clerk Permit clerk Pay roll clerk Record clerk Two sidewalk clerks (\$1,084 each) Meter inspector Two messengers City Engineer's Office— City Engineer First assistant on sewers Second assistant on streets		3 14,250
Permit clerk Pay roll clerk Record clerk Two sidewalk clerks (\$1,034 each) Meter inspector Two messengers City Engineer's Office— City Engineer First assistant on sewers Second assistant on streets		· 3 14,250
Pay roll clerk Record clerk Two sidewalk clerks (\$1,084 each) Meter inspector Two messengers City Engineer's Office— City Engineer First assistant on sewers Second assistant on sewers First assistant on streets		· 3 14,250
Record clerk. Two sidewalk clerks (\$1,084 each). Meter inspector. Two messengers. City Engineer's Office— City Engineer. First assistant on sewers. Second assistant on streets.		3 14,250
Two sidewalk clerks (\$1,084 each). Meter inspector. Two messengers. City Engineer's Office— City Engineer. First assistant on sewers. Second assistant on sewers. First assistant on streets.		14,250
Meter inspector Two messengers City Engineer's Office— City Engineer First assistant on sewers Second assistant on sewers First assistant on streets		3 14,250
Two messengers. City Engineer's Office— City Engineer. First assistant on sewers. Second assistant on sewers. First assistant on streets.	\$3,000 00 	3 14,250
City Engineer's Office— City Engineer	\$3,000 00 1,800 00	3 14,250
City Engineer's Office— City Engineer	\$3,000 00 1,800 00	14,250
City Engineer	1,800 00	
First assistant on sewers	1,800 00	
Second assistant on sewers	•	
First assistant on streets	1,100 00	
O	1,300 00	
Second assistant on streets	1,200 00	
1 map and record clerk	1,500 00	
1 draughtsman	1,200 00	
1 draughtsman	1,034 00	
1 clerk, sewer assessments	1,200 00	
1 assistant on grade separation	1,100 00	
1 transitman	1,100 09	
1 leveler	1,034 00	
One clerk	1,034 00	
8 Rodmen (\$1,034 each)	3,102 00	
Printing, stationery and supplies		600
Total	- 	40,554
Less estimated receipts from Gas Company		1,200

ROAD DISTRICT FUNDS.

First Ward--

rirst ward		
Working appropriation		
Opening John R. street	P 99 000	. ^
Second Ward—	22,000	U
	_	
Working appropriation	20,000	00
Third Ward-		
Working appropriation	8,000	0(
Fourth Ward—		
Working appropriation	12,000	00
Fifth Ward—		
Working appropriation	9,000	0(
Sixth Ward—		
Working appropriation	8,000	00
Seventh Ward	8,000	0
Eighth Ward	8,000	0
Ninth Ward	8,000	00
Tenth Ward	7,000	00
Eleventh Ward	7,000	00
Twelfth Ward	7,000	00
Thirteenth Ward	7,000	00
Fourteenth Ward	7,000	00
Fifteenth Ward	7,000	00
Sixteenth Ward	7,000	00
Seventeenth Ward	8,000	00
Total	160,000	00
BELLE ISLE BRIDGE FUND.		
Salaries	7,000	00
Repairs to sidewalk and iron span	500	00
Repairing rip-rapping at draw pier	500	00
Coal, oil, waste, repairs to boiler, ice and brooms	100	00

WESTERN MARKET FUND.

Maintenance and repairs\$	100 00
EASTERN MARKET FUND. Maintenance and repairs	150 00
PUBLIC HEALTH FUND.	
Salaries-	
Secretary Sanitary engineer. Chemist and bacteriologist. Two food and milk inspectors, each at \$750. Two medical inspectors and disinfectors, each \$800. Two meat inspectors, each at \$600. Three plumbing inspectors, each \$1,000. One garbage inspector. Registrar and contagious disease cierk. Night cierk and janitor. Two quarantine inspectors, each \$600. Funeral inspector. Two guards at hospital. Two guards at hospital for Sundays.	5,000 00 1,400 00 1,400 00 1,600 00 1,600 00 1,200 00 600 00 1,034 00 600 00 1,200 00 600 00 1,200 00 1,200 00 208 00
Sanitary engineer's clerk	600 00
Permit clerk and typewriter Day janitor	490 00 300 00
Labor, smallpox hospital.	500 00
Labor (quarantine guards)	1,000 00
Total	24,822 00
Anti-toxine \$ 400 00 Advertising 30 00 Care of poor patients 800 00 Disinfectants 250 00	

Fuel	
General expense	
Groceries	
Hospital repairs	
Hospital supplies	
Livery 75 00	
Laboratory supplies	
Mcssenger service	
Postage 100 00	
Printing and stationery 400 00	
Transportation (inspectors)	
Vaccine matter	
Total	\$ 6,230 00
Supplemental—	
Day janitor	300 00
·	
Total	\$ 31,352 00
(Total amount appropriated from liquor moneys.)	
RECORDER'S COURT FUND.	
RECORDER'S COURT FUND. Salaries of officers of court	\$ 14, 2 00 00
Salaries of officers of court	300 00
Salaries of officers of court	300 00 200 00
Salaries of officers of court	300 00 200 00
Salaries of officers of court	\$00 00 200 00 \$ 14,700 00
Salaries of officers of court. Witness fees, ordinance cases. Printing, stationery, etc. Total POOR COMMISSION FUND.	\$00 00 200 00 \$ 14,700 00
Salaries of officers of court	300 00 200 00 \$ 14,700 00 \$ 25,500 00
Salaries of officers of court Witness fees, ordinance cases Printing, stationery, etc Total POOR COMMISSION FUND. Provisions Fuel and delivery	300 00 200 00 \$ 14,700 00 \$ 25,500 00 9,000 00
Salaries of officers of court Witness fees, ordinance cases Printing, stationery, etc Total POOR COMMISSION FUND. Provisions Fuel and delivery Salaries	\$00 00 200 00 \$ 14,700 00 \$ 25,500 00 9,000 00 6,500 00
Salaries of officers of court. Witness fees, ordinance cases. Printing, stationery, etc. Total POOR COMMISSION FUND. Provisions Fuel and delivery. Salaries Hospitals	\$ 14,700 00 \$ 14,700 00 \$ 25,500 00 9,000 00 6,500 00 7,500 00 2,500 00
Salaries of officers of court. Witness fees, ordinance cases. Printing, stationery, etc. Total POOR COMMISSION FUND. Provisions Fuel and delivery. Salaries Hospitals Drugs, medicines, etc.	\$00 00 200 00 \$14,700 00 \$25,500 00 9,000 00 6,500 00 2,500 00 2,000 00
Salaries of officers of court. Witness fees, ordinance cases. Printing, stationery, etc. Total POOR COMMISSION FUND. Provisions Fuel and delivery. Salaries Hospitals Drugs, medicines, etc. Burials and ground.	\$00 00 200 00 \$14,700 00 \$25,500 00 9,000 00 6,500 00 7,500 00 2,500 00 500 00
Salaries of officers of court. Witness fees, ordinance cases. Printing, stationery, etc. Total POOR COMMISSION FUND. Provisions Fuel and delivery. Salaries Hospitals Drugs, medicines, etc. Burials and ground. Shoes and clothing.	\$00 00 200 00 \$14,700 00 \$25,500 00 9,000 00 6,500 00 7,500 00 2,500 00 500 00
Salaries of officers of court. Witness fees, ordinance cases. Printing, stationery, etc. Total POOR COMMISSION FUND. Provisions Fuel and delivery. Salaries Hospitals Drugs, medicines, etc. Burials and ground. Shoes and clothing. Transportation	\$00 00 200 00 \$14,700 00 \$25,500 00 9,000 00 6,500 00 2,500 00 2,000 00 500 00 500 00

Supp	lemental—
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Agricultural Committee, necessary expense matter cultivation va-	
cant land	600 00
Total and the second se	
Total	5,500 00
(Total amount appropriated from liquor moneys.)	
METROPOLITAN POLICE FUND.	
Superintendent	1,000 00
Captains—	
1 in charge of Detective Bureau\$1,800 00	
1 in charge nights	
1 in charge of Central Precinct	
6 in charge of precincts, at \$1,500 9,000 00	
1 in charge of horses and barns	•
1 City Sealer of Weights and Measures	
\$ 10	,800 00
Lieutenants —	
2 in charge of detectives, at \$1,500\$3,000 00	
1 in charge of detectives	
1 in charge of buildings	
1 in charge of Central Division	
1 in charge of truant squad	
1 at Recorder's Court	
1 at Police Court	
1 at Police Court	
·	,800 00
21 in charge of stations, at \$1,100	,800 00
21 in charge of stations, at \$1,100	,,800 00
21 in charge of stations, at \$1,100	,800 00
21 in charge of stations, at \$1,100	s,800 00
21 in charge of stations, at \$1,100	,800 00
21 in charge of stations, at \$1,100	

Patrolmen, detailed as follows:

17 acting detectives, at \$1,200\$	20,400	00		
14 precinct detectives	13,300	00		
1 assistant at Corporation Counsel's office, at \$900	900	00		
1 harbormester	1,060	00		
5 at Recorder's Court, at \$900	4,500	00		
2 at Police Courf, at \$900	1,800	00		
2 at City Hall, at \$900	1,800	00		
3 at Municipal Building, at \$900	2,700	00		
1 at Public Library	900	00		
1 at Dog Pound	900	00		
3 acting truant officers, at \$900	2,700	00		
12 on sanitary duty, at \$900	10,800	00		
1 assistant to City Sealer	900	00		
2 at headquarters day and night	1,800	00		
1 clerk in Superintendent's office	1,000	00		
1 assistant clerk	900	00		
9 on street crossings, at \$900	8,100	00		
7 on Belle Isle, at \$900	6,300	00		
26 on patrol wagons day and night, at \$300	23,400	00		
1 on patrol wagon day and night	800	00		
27 on regular patrol duty, at \$800	21,600	00		
278 on regular patrol duty, at \$900	250,200	00		
·		-\$	376,760 00)
Doormen-				
	•			
23 for day and night duty, at \$800			18,400 00)
Signal Service Department—				
1 superintendent of service	1.500	00		
1 assistant superintendent of service	900			
1 machinist	800			
8 linemen, at \$720	2,160			
1 instrument man	800			
1 truckman	60 0			
6 operators, at \$660	3,960			
5 timekeepers, at \$600.	3,000			
3 operators, at headquarters	1,800			
		~		

_____\$ 15,520 00

Employes-

1 secretary, license collector and property clerk\$	9 500 00
1 assistant secretary	
	1,500 00
1 clerk, secretary's office	900 00
1 superintendent's chief clerk, stenographer and photog-	
rapher	1,500 00
1 surgeon	1,300 00
1 attorney	5 00
7 matrons, at \$600:	4,200 00
2 hostlers (foremen), at \$720	1,440 00
5 hostlers, at \$600	3,000 00
1 clerk, detective bureau	900 00
1 janitor, Hamiin Avenue Station	600 00
1 janitor, at headquarters	600 00
1 janitress, at Signal and City Sealer's office	180 00
1 telephone boy, Harbormaster's office	300 00
_	\$ 18,925 00

Current Expenses-

Books, stationery and printing\$	500 0	0
Barn supplies	400 0	0
Bicycles, and repairs	500 0	0
Equipments	500 0	0
Fuel	3,000 0	0
Furniture, carpets, bedding, etc	1,000 0	0
Horses	1,000 0	0
Hay, grain, horse-bedding, etc	4,500 0	0
Horseshoeing	1,500 0	0
Harness and repairs thereto	400 0	0
Ice and sprinkling	200 0	0
Meals and lodgings	1,200 0	0
Medical service	400 0	0
Minor supplies	500 0	Ю
Newspapers, directories, advertising, etc	5 2 5 0	Ю
Postage	100 0	0
Permanent improvements	1,000 0	Ю
Repairs, painting, etc	1,500 0	Ю
Rent of telephones	100 0	Ю
Rent for barn, for headquarters' night patrol horses, etc	75 C)(

Grand manufactural Investigations (1500.00		
Secret service, criminal investigations		
Signal service and telephone department		
Street car tickets		
Telegrams		
Wagon repairs		
Washing and cleaning		
	33,450	00
Total	62,055	00
Supplemental—		
Painting Hunt Street Station\$	275	00
Painting Woodbridge Street Station	100	00
New coment floor cell block Chene Street Station	500	00
Cement sidewalks and driveways Grand River Avenue Station	300	00
Steel cell block Grand River Avenue Station	725	00
Furniture, electroliers, window shades, etc., Grand River avenue		
Station	500	00
Fences, Grand River Avenue Station	75	
Painting fences and cell block, Grand River Avenue Station		00
Sodding and trees, Grand River Avenue Station		00
Fire escape for headquarters building		00
New patrol wagon.		
New patror wagon	500	w
	2,725	
Estimates for maintenance		
Supplemental estimates		
——————————————————————————————————————	2,120	
\$	554,780	00
CREDITS.		
Estimated cash balance July 1, 1901\$ 10,000 00		
Estimated receipts		
-		
Estimated receipts	15,000	00
Total	539,780	00
Credit-(This credit is made in anticipation that a further appropria-		
tion of \$4,041 will be made from liquor moneys)	4,041	. 00
Total allowed	E95 790	
(\$109,107 has been appropriated by Common Council from liquor thus reducing amount to be placed on rolls to \$426,632.)		

WATER COMMISSION FUND.

For interest and sinking fund	75,000 (00
PUBLIC LIBRARY FUND.		
One-fifth of one mill on the dollar of assessed valuation	47,559	85
BOARD OF EDUCATION FUND.		
Building Fund-		
For a 15-room building north of Mack avenue and east of Van Dyke		
avenue	40,000	ΰÛ
For a site for same	5,000 (00
For a 10-room addition to the Owen School, including a new heat-		
ing and ventilating plant for both old and new part	20,000 (00
For an 8-room addition to the Palmer School	20,000 (00
For additional land adjoining this school	2,500 ()0
For the completion of the new Craft School	24,100 ()0
For special furniture and lockers, Eastern High School	10,000 0)0
For fire extinguishers	300 ()0
For architects' services preparing plans and specifications for new		
buildings, etc., 2 per cent	2,780 0)()
For superintendence of erection, etc., 1½ per cent	2,085 0	X 0
For consulting engineers' services, preparing plans and specifications		
for heating and ventilating plants, 2 per cent	790 0	
For superintendence of installation of same, 1½ per cent	580 0 600 0	-
For school desks and furniture for new schools	6,500 0	
For window shades in new schools	400 0	
For paving, sewer and other assessments	1,000 0	
For insurance, builders' risks	150 0	
Supplemental—		
For a 12-room building for primary and grammar grade purposes to	~ ^^ ^	
relieve Tilden School	35,000 0	
For a site for same.	7,000 0	NJ.
For purchasing two vacant lots on the north side of and adjoining the Estabrook School	1,400 0)0
Total building fund	180,185 0	- 10

FIRE COMMISSION FUND.

Running Exp	enses—
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Pay rolls	472,661	10
Hay, oats and bedding	16,500	00
Harness and repairs	900	00
Horseshoeing	5,250	00
Engine repairs	5,000	00
Hose wagon repairs	1,000	00
Wagon repairs	1,500	00
Truck repairs	2,400	00
General supplies	7,100	00
Telegraph supplies	352	00
Washing	2,900	00
Fuel	10,000	00
Printing and stationery	900	00
Building repairs	10,300	00
Hose and suction repairs	1,200	00
Extra parts	500	00
Light for apparatus and houses	1,600	00
-		
.	540,063	10
Water Extension—	540,063	10
Water Extension—	,	_
	,	_
Water Extension—	,	_
Water Extension—	,	_
Water Extension— Amount allowed	25 ,000	00
Water Extension— Amount allowed	,	00
Water Extension— Amount allowed	25 ,000	00
Water Extension— Amount allowed	25 ,000	00
Water Extension— Amount allowed	25 ,000	00
Water Extension— Amount allowed	6,000 1,550	00
Water Extension— Amount allowed	6,000 1,550	00
Water Extension— Amount allowed	6,000 1,550 75	00 00 00 00
Water Extension— Amount allowed Telegraph Extension— Amount allowed Necessary Apparatus— Marine risk on fire boats. Fire risk on supply stable and horses. For new hose.	6,000 1,550 75 6,500	00 00 00 00
Water Extension— Amount allowed	6,000 1,550 75 6,500 9,000	00 00 00 00 00
Water Extension— Amount allowed	1,550 75 6,000 1,500 9,000 1,500 2,400	00 00 00 00 00 00

\$ 21,675 00

Supplemental Estimate No. 1—For pipe line extension:		
Completion of line on Woodward avenue from Opera House crossing		
to Wilcox street, for which pipe, hydrants, gates and fittings are		
on hand\$	2,000 00)
Extension of line from Woodward avenue to alley west of Woodward		
avenue, on State street	923 90)
Extension of line from Woodward avenue to alley east of Woodward		
avenue, on Gratiot avenue	736 40)
Extension of line on Eighth street, from River to Fort street	1,437 80	,
	E 000 10	
•	5,098 10	,
Supplemental Estimate No. 2—		
For the purpose of paying Frank E. Kirby for preparing plans and	9 700 00	
specifications and superintending the building of fire boat\$	2,100 00	,
Supplemental Estimate No. 3—		
For new building to replace one now used by Engine Company No. 9,		
which was erected in 1859 and will not admit of the remodeling		
necessary to put in the larger and heavier apparatus demanded		
by the service required of this company	12,000 00)
Supplemental Estimate No. 6—		
For an engine house in the vicinity of Campbell avenue and Fort		
street. (Board of Estimates recommends that the house be lo-		
cated on Military avenue, midway between Fort street and Dix avenue):		
wvc.iuc),		
House		
Lot		
Fences, sidewalks, eto		
Furniture 400 00	•	
Bell		
Alarm circuit bell		
Register 50 00		



125 00 -------\$ 17,145 00

Engine	4,700 00	
Hose wagon	1,000 00	
Hose	2,000 00	
Horses	875 00	
Harness, blankets, etc	200 00	
Exercise wagon and sleigh	200 00	
Engine heater	200 00	
Heating apparatus for house	700 00	
		9,875 00
Running Expenses for Six Months—		
Pay rolls\$	5,065 00	
Hay, oats and bedding	300 00	
Horseshoeing	75 00	
Supplies	100 00	
Washing	37 50	
Light	50 00	
Fuel	100 00	
		5, 727 50
		2,747 50
General cut, Sup. No. 6		5,747 50
		7,000 00
Total		•
Less estimated balance	•	•
Total allowed	\$62	9,536 20

PUBLIC LIGHTING FUND.

Operation of the Present Plant-

10,000 tons coal, at \$2.50 per ton\$	22,500	00
Removing ashes	200	00
Oils, waste, etc	1,450	00
700,000 pairs carbons, at \$12 per M pairs	8,400	00
Incandescent lamp renewals	1,400	00
Maintenance of buildings, tracks, dock, etc		
Maintenance of steam plant	1,000	00

Maintenance of electric plant	300	00
Maintenance of arc lamps	500	00
Maintenance of outside wiring, lines and cables	400	00
Maintenance of conduits and towers	200	00
Miscellaneous incandescent lighting expense	100	00
Repairs to buildings, painting stack, rebuilding ashpit, repairs to		
track and scales	500	00
Repairs to bollers and engines	1,200	00
Repairs to electric plant, dynamos and wiring	800	00
Repairs to arc lamps, changing and cleaning	800	00
Rebuilding lines	2,000	00
Rebuilding conduits and towers	1,000	00
Wages	55,000	00
-		
Total operation maintenance and repairs\$	98,000	00
Betterment and Extension of the Present System-Underground:		
To place on the underground system 18 lamps now wired overhead,		
including new laterals, cables and lamp posts\$	2,500	90
Extensions to the Lighting System—		
150 arc lamps extensions in most important locations	7,500	00
Cost of operating 150 lamps nine months at rate of \$42.70 per annum	4,500	00
100 additional arc lamps	5,000	00
Operating same nine months	3,000	00
Conduits and cables, required in half-mile circle from Beaubien		
street conduit, Randolph street to Cadillac square, to Bates		
street; also on Washington avenue, between State and Park;		
also on Randolph from Larned to Woodbridge, 29,790 duct feet and		
13 manholes at 32 cents; and 102,455 feet cable at 16 cents	15,000	00
Belle Isle Park—		
2010 2010 2 444 1		
Incandescent lines to new buildings	500	00
14 iron lamp posts at \$50	700	00
Extension Incandescent System—		
Running feeder to 7 schools, 7 fire engine houses and 2 police stations		
in west end of city	5,628	00
Operating 1,382 fights in above 16 buildings	1,000	00

Station Betterment-

Net cost of changing one triple engine set and four arc dynamos to	
alternator direct connected to same engine to operate both in-	
candescent and arc lighting service	10,000 00
Total	55,328 00
Total allowed	153,338 00

PARK AND BOULEVARD FUND.

GENERAL MAINTENANCE.

Administration—	
Maintaining office, rent, stationery, printing, postage, salary of sec-	
retary and general manager, general superintendent, bookkeeper,	
stenographer, incidentals, etc\$	9,000 00
Engineering Department—	
Salaries, instruments, supplies, preliminary plans, etc	2,000 00
Telephones—	
City office, Belle Isle, Palmer Park, city barn, repair of private line,	
etc	285 00
Greenhouse Department-	
Stock, labor, planting, fuel, etc	7,000 00
Tools and Implements—	
Purchase and repair	2,500 00
Two Steam Rollers—	
Engineers, repairs, fuel, etc	1,600 00
Final purchase payment of 12-ton roller	498 00
Stone Crusher—	
Engineer, repairs, fuel, etc	950 00
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Barns, Horses and Vehicles—	
Forage, care of horses, repairs to harnesses and vehicles, barn sup-	
plies, rent of city barn, etc	11,000 00
Nursery—	
Supplies, labor, fuel for propagating house, stock, etc	2,750 00
	2,100 00
Band Concerts—	
Concerts on Belle Isle and Clark Park principally, from June to October	5,465 00
Manure-	
Purchase, hauling, storing and composting for fertilizing lawns,	
trees, shrubs, etc	500 00
Total general maintenance\$	43,548 00
Belle Isle Maintenance—	
General, including grounds, trees, lawns, fields, deainage, roads,	
walks, canals, lagoons, skating lake, rustic work, fountains, plumbing, cesspools, sprinkling, closets, ice water drinking foun-	
tains and tanks, repairs of and painting buildings, bridges, docks,	
janitresses, care of buildings, athletic grounds, fuel, care of zoo-	
logical department, overseer's salary, etc\$	30,000 00
Park wagon service, including wages of cashiers, ticket collectors,	
drivers, repairs etc	1,000 00
Bath-house, including wages of bathmaster and other employes, sup-	300 00
plies, bathing suits, etc	300 00
quired, owing to the increasing popularity of the park	909 00
Total Belle Isle maintenance\$	32,209 00
Palmer Park and Parkway Maintenance—	
General, including grounds, lawns, trees, shrubs, roads, walks, lakes,	
swings, bridges, rustic work, plumbing, ice water tanks and foun-	
tains, repairs to buildings, etc\$	4,000 00
Water rent to July 1, 1902, and to make up deficit for last year, when	500.00
\$700 was asked and only \$500 allowed	700 00
Total Palmer Park and Parkway maintenance	4,700 00

General, including grounds, lawns, trees, shrubs, roads, walks, lakes, swings, rustic tables and benches, plumbing, drainage, ice water fountains, skating lake, repairs to buildings, overseer's salary,	2 000 00
eto \$	2,000 00
City Parks Maintenance—	
General, including grounds, walks, lawns, trees, shrubs, fountains,	
settees, etc\$	5,000 00
City Hall lawn, floral display, care of, etc	300 00
City parks, caretakers for Boston, Cadillac, Campau, Capitol, Cass,	
City Hall lawn, Clinton, Crawford, Elton, East Grand Circus,	
West Grand Circus, Harmonie, Macomb, Medbury, Opera House	
Lawn, Owen, Perrien, Recreation, Stanton, Washington and	
West, 16 caretakers; total number of hours, 25,024, at the rate of	
\$1.50 per day of eight hours	4,692 00
Total city parks maintenance\$	9,992 00
Boulevard Maintenance—	
General, including lawns, walks, trees, shrubs, drainage, fountains,	
water system, hydrants, roads, intersections, sprinkling, etc\$	6,000 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of	
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	8,326 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00 1,500 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00 1,500 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00 1,500 00 1,200 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00 1,500 00 1,200 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00 1,500 00 1,200 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00 1,500 00 1,200 00 13,486 00
Caretakers from April 15 to Nov. 20, 9 caretakers; total number of hours, 17,739, at rate of \$1.50 per day of eight hours	3,326 00 1,460 00 1,500 00 1,200 00 13,486 00



Wagons-	
Six work wagons to purchase	200 00
Sprinkling Wagons-	
Four sprinkling wagons to purchase	1,800 00
Dump Carts—	
Dump carts to purchase and repair	150 00
Hose Carts—	
Hose Carts to purchase and repair	150 00
Cobble Stone-	
For general use to be taken from the Board of Public Works when streets are repaved	1,000 00
Greenhouses—	
To add ranges Nos. 1, 7, 8 and 9 to the new greenhouse plant to avoid the necessity of spending from \$1,000 to \$2,000 in repairing the old greenhouse ranges	4,000 00
Truck—	
One double truck with windlass attached	325 00
Total general improvements\$	9,625 00
BELLE ISLE IMPROVEMENTS.	
Roads and Walks—	~
There are on Belle Isle, including Vista avenue and roads west, more than 100,600 square yards of roadway to be re-surfaced, which would cost more than \$60,000, figuring on a basis of taking the cobble stone from the public streets at practically the hauling of it, while if the stone were purchased this cost would be largely	
increased—Resurfacing and construction of a portion	2,500 00
Ice House—	
To build one ice house and complete present one	250 00

Bridges—	
No. 11, near Inselruhe dock, to erect, stone or iron	8,600 00
Athletic Field—	
Construction of, including tiling ,leveling, seeding, sprinkling, pipe system to save hose, track, baseball diamonds, football grounds, lawn tennis court, croquet grounds, etc	1,000 00
Lake and Canals—	
To finish the deepening of Lake Tacoma	4,000 00
To clean out Loop Canal and dredge outlet	2,500 00
To riprap lakes and canals	250 00
To repair lily pond	100 00
Music Stand—	
To erect a music stand near bridge No. 7	1,000 00
Phaeton—	
Purchase one long, light phaeton to care for traffic across Belle Isle	
Bridge	550 00
Phaeton Harnesses-	
To purchase seven sets of phaeton harnesses to replace old and	
worthless ones	100 00
Zoo Department-	
To prepare lagoon and build shelters for water animals	250 00
Purchase of animals and to build, repair and paint cages, etc	2,000 00
Water System-	
Hydrants at various points on main thoroughfares to facilitate road	
sprinkling and save distance in hauling water	150 00
Shut-off gates on hydrants of main water system to avoid shutting	
off of entire water system when a single hydrant is out of order.	200 00
To extend sprinkling pipe system in lawns to save hose and to	
facilitate watering of lawns, trees, etc	500 00
Fountains	
Ice water drinking fountains, to replace old, worthless and unsani-	
tary ice water tanks	500 00

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Settees and Swings—	
To purchase, repair, paint, etc	200 00
To purchase and install laundry apparatus	250 00
To put new and straighten old piles around basin, repair runways	
to basins, to erect fence between men's and women's basin	260 00
Boat House—	
To build new platform or dock at east end of boat house	100 00
Buildings—	
Casino, to paint outside and varnish inside	985 00
Casino, new steps, repair veranda on west side, new shingle roof	
and gutters for veranda	470 00
Inselruhe, painting, repairs, papering, etc	250 00
Women's brick and stone toilet pavilions, to repair and paint wood-	
work	85 00
Shelter ferry dock, to repair	500 00
Rustic Stands	
Tables, seats and stands, to repair or make new	250 00
New rustic bridge over lily pond	100 00
Starons Calley	
Storage Celiar—	
To erect storage cellar, frost proof, for storing plants, bulbs, roots	750 00
Machinery—	
Motor to run machinery at carpenter shop	250 00
Rip and crosscut saw, tilting iron table	225 00
Band saw	140 00
Total Belle Isle improvements	24,265 00
	;
PALMER PARK IMPROVEMENTS.	
General—	
Including roads, walks, lawns, lakes, bridges, sprinkling system,	
tiling, sewerage, landscaping, trees, shrubs, and to continue the	
collection of plants for the arboretum, etc	3,000 00
	3,000 00
Buildings— New shingle roof and repairs to log cable ote	150 00
New shingle roof and repairs to log cabin, etc	150 00
Total Palmer Park improvements\$	3,150 00

PALMER PARKWAY IMPROVEMENTS.

General— Including walks, lawns, drainage, landscaping, etc	1,000 00
CITY PARKS IMPROVEMENTS.	
Boston Parkway	
Lawns, trees, shrubs, etc\$	100 00
Cadillac—	
Walks, lawns, planting, etc	100 00
Campau—	
Bringing lawns to established grade, walks, sodding, planting, etc	300 00
Capitol—	
Walks, lawns, trees, etc	50 00
Cass—	
Walks, lawns, trees, shrubs, etc	250 00
City Hall Lawn-	
Sodding lawns, etc	100 00
Clinton—	
Walks, lawns, planting, etc	50 00
Clark-	•
General, including grounds, lawns, walks, trees, shrubs, concreting	
bottom of lake, water display, etc	3,000 00
Crawford—	
Walks, lawns, planting and concrete walk east and west across the	
park, the walk being a thoroughfare, etc	285 00
Elton—	
Walks, lawns, planting and to construct concrete walk east and west across the park, the walk being a thoroughfare, etc	905 00
Grand Circus—	285 00
Trees, lawns, walks, etc	500 00

Harmonie—	
Lawns, planting, etc	50 00
Macomb-	
Lawns, planting, etc	50 0 0
Medbury-	
Walks, lawns, trees, shrubs, water system to save hose, etc	100 00
Opera House Lawn-	
Completing grounds around fountain, etc	150 00
Owen-	
General, including 1,000 more feet of sheet piling to the end that	
three acres will be added to the park when filled, grading, lawns,	
sprinkling pipe system, etc	2,000 00
Perrien—	
Walks, lawns, planting, tool shed in ground hidden by shrubbery to	
protect tools from theft, etc	300 0 0
Recreation-	
Lawns, planting and concrete walk through park on line with Alexandrine avenue, it being a thoroughfare, etc	200 00
Stanton-	
Walks, lawns, planting and a complete fountain, etc	100 00
Second Avenue Parkway—	
Sprinkling pipe system and to connect water system with main un-	
der the street, planting and general improvement	500 00
Volgt-	
Lawns and general improvement	100 00
Washington Parkway-	
Lawns, trees, shrubs, constructing flower beds, etc	500 00
West	
Walks, lawns, planting flower beds, etc	50 00
Total city parks improvements	9,120 00



BOULEVARD IMPROVEMENTS.

Gates-

Shut-off gates at hydrants to avoid shutting off large water main when hydrants are out of order	200	00
Sprinkling System—		
Sprinkling pipe system laid in lawns from Woodward to Holden and Fort to Dix	510	00
Tool Houses—		
To construct tool houses in lawns to be hidden by shrubbery	200	00
Planting—		
Trees and shrubs at large where most required	500	00
Dequindre Street Bridge-		
Planking, painting, repairs, etc	300	00
Sidewalk Intersections and Alley Crossings-		
To be laid by city	1,000	00
Brick Intersection—		
To complete brick intersection at Chene street	460	00
Roadways		
There are 320,000 square yards of macadam roadway on the Boulevard, 223,000 square yards of which require resurfacing, which should be done at once and while the cobble is being taken from the public streets, as by so doing it can be done much cheaper than to purchase the stone in the regular way. Figuring on this basis,		
it would cost \$91,300 00. To do a portion where most required	5,000	00
Total Boulevard improvements\$	8,170	90
Total		
Total	45.285	

Yeas—Estimators Andrus, Babcock, Beckwith, Bickel, Bloss, Braciszewski, Burns, Butterfield, Carter, Chapman, Colquitt, Comnon, Cox, Davey, Falklam, Freiburger, Hallock, Hannan, Henry, Howlett, Husen, Kubitzsky, McKay, Mundt, Mutter, Peters, Ramsay, F. A. Robinson, W. W. Robinson, Rose, St. Aubin, Schneider, A. J. Schulte, J. J. Schulte, Taylor, Teagan, Tuchocki, Wuellner, and the President—39.

Nays-None.

RESOLUTIONS.

By Estimator Taylor:

Whereas, The Common Council of the City of Detroit has authorized the issuance of bonds to be known as "Public School Bonds of the City of Detroit" in such amount as the Board of Estimates shall consent to, said amount not to exceed \$309,000; therefore, be it

Resolved, That this Board consent to the issuance of bonds to the amount of \$155,000, being the amount allowed by this Board for the purchase of school sites, and the erection thereon of school buildings.

Adopted as follows:

Yeas—Estimators Andrus, Babcock, Beckwith, Bickel, Bloss, Braciszewski, Burns, Butterfield, Carter, Chapman, Colquitt, Common, Cox, Davey, Falklam, Freiburger, Hallock, Hannan, Henry, Howlett, Husen, Kubitzsky, McKay, Mundt, Mutter, Peters, Ramsay, F. A. Robinson, W. W. Robinson, Rose, St. Aubin, Schneider, A. J. Schulte, J. J. Schulte, Taylor, Teagan, Tuchocki, Wuellner, and the President—39.

Nays-None.

By Estimator McKay:

Resolved, That the Board of Estimates of the City of Detroit hereby approves and consents to the following estimates of moneys necessary to be raised by taxation for the year 1901, to defray the expenses of the several funds during the fiscal year ending June 30, 1902:

For Detroit City Sinking Fund\$	8,875 00
For the Interest Fund	216,580 00
For the General Fund	191,321 50
For the Public Entertainment Fund	25,000 00
For the Garbage Fund	51,500 00

For the Street Opening Fund	90 000 00
For the Street Opening Fund	39,262 88
For the Police Pension Fund	9,544 80
For the General Road Fund.	1,395 27
	222,449 00
For the Repaying Fund	340,459 00
For the Public Building Fund	3,250 00
For the Public Sewer Fund	105,994 00
For the Belle Isle Bridge Fund	8,100 00
For the Western Market Fund	100 00
For the Eastern Market Fund	150 00
For Road District Fund No. 1	22,000 00
For Road District Fund No. 2.	20,000 00
For Road District Fund No. 8	8,000 00
For Road District Fund No. 4	12,000 00
For Road District Fund No. 5	9,000 00
For Road District Fund No. 6	8,000 00
For Road District Fund No. 7	8,000 00
For Road District Fund No. 8	8,000 00
For Road District Fund No. 9	8,000 00
For Road District Fund No. 10	7,000 00
For Road District Fund No. 11	7,000 00
For Road District Fund No. 12	7,000 00
For Road District Fund No. 13	7,000 00
For Road District Fund No. 14	7,000 00
For Road District Fund No. 15	7,000 00
For Road District Fund No. 16	7,000 00
For Road District Fund No. 17	8,000 00
For the Board of Public Works General Fund	89,854 00
For the Public Health Fund	
For the Recorder's Court Fund	14,700 00
For the Poor Commission Fund	
For the Metropolitan Police Fund	426,632 00
For the Superannuated Police Fund	
For the Water Commission Fund	75,000 00
For the Public Library Fund	47,559 85
For the Board of Education Fund	25,185 00
For the Fire Commission Fund	629,536 20
For the Public Lighting Fund	153,328 00
For the Park and Boulevard Fund	145,265 00
Total	2,935,541 50

Yeas—Estimators Andrus, Babcock, Beckwith, Bickel, Bloss, Braciszewski, Burns, Butterfield, Carter, Chapman, Colquitt, Common, Cox, Davey, Falklam, Freiburger, Hallock, Hannan, Henry, Howlett, Husen, Kubitzsky, McKay, Mundt, Mutter, Peters, Ramsay, Robinson (F. A.), Robinson (W. W.), Rose, St. Aubin, Schneider, Schulte (A. J.), Schulte (J. J.), Taylor, Teagan, Tuchocki, Wuellner, and the President—39.

Nays-None.

By Estimator McKay:

Whereas, The Common Council allowed the Public Health Fund at \$34,893.00, and the Poor Commission Fund at \$56,000.00, and appropriated said amounts from liquor moneys; and,

Whereas, This Board have allowed but \$31,352.00 for the former fund and \$55,500.00 for the latter fund, leaving available the sum of \$4,041.00; and,

Whereas, This Board has made a credit of \$4,041.00 to the Metropolitan Police Fund in anticipation that the Common Council will appropriate \$113,-148.00 from liquor moneys, instead of \$109,107.00 heretofore appropriated to the use of said Metropolitan Police Fund; therefore, be it

Resolved, That the Common Council be and is hereby requested to adopt a resolution requesting the City Controller to take the sum of \$113,148.00 from moneys received as liquor tax and place the same to the credit of the Metropolitan Police Fund, instead of \$109,107.00 heretofore appropriated.

Adopted as follows:

Yeas—Estimators Andrus, Babcock, Beckwith, Bickel, Bloss, Braciszewski, Burns, Butterfield, Carter, Chapman, Colquitt, Common, Cox, Davey, Falklam, Freiburger, Hallock, Hannan, Henry, Howlett, Husen, Kubitzsky, McKay, Mundt, Mutter, Peters, Ramsay, Robinson (F. A.), Robinson (W. W.), Rose, St. Aubin, Schneider, Schulte (A. J.), Schulte (J. J.), Taylor, Teagan, Tuchocki, Wuellner, and the President—39.

Nays-None.

RESOLUTIONS.

Leave being granted, the following were offered:

By Ald. Barrie:

Resolved, That the resolution adopted on the 5th inst., authorizing the Controller to take the sum of \$34,893.00 from moneys received as liquor

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taxes and place the same to the credit of the Public Health Fund, be and the same is hereby rescinded, and further

Resolved, That the Controller be and he is hereby authorized to take the sum of \$31,352 from the moneys received as liquor taxes (as per Chapter 11, Section 27, Charter Amendments of 1895) and place the same to the credit of the Public Health Fund instead of \$34,893 heretofore appropriated.

Adopted as follows:

Yeas—Ald. Atkinson, Barrie, Beamer, Campbell, Deimel, Freda, Hansjosten, Hillger, Houghton, Jerome, Keating, Koch, Koenig, Lemke, Liphardt, McGuire, Magee, Marx, Miller, Moeller, Mohn, Neverman, Reinhardt Smith, Snow, Steiger, Tossy, Weber, Weibel, Weiler and the President—31.

Naye-None.

By Ald. Barrie:

Resolved, That the resolution adopted on the 5th inst., authorizing the Controller to take the sum of \$56,000 from moneys received as liquor taxes and place the same to the credit of the Poor Commission Fund, be and the same is hereby rescinded, and further

Resolved, That the Controller be and he is hereby authorized to take the sum of \$55,500 from moneys received as liquor taxes (as per Chapter 11, Section 27, Charter Amendments of 1895) and place the same to the credit of the Poor Commission Fund instead of \$56,000 heretofore appropriated.

Adopted as follows:

Yeas—Ald. Atkinson, Barrie, Beamer, Campbell, Deimel, Freda, Hansjosten, Hillger, Houghton, Jerome, Keating, Koch, Koenig, Lemke, Liphardt, McGuire, Magee, Marx, Miller, Moeller, Mohn, Nevermann, Reinhardt, Smith. Snow, Steiger, Tossy, Weber, Weibel, Weiler and the President—31.

Nays-None.

By Ald, Barrie:

Resolved, That the resolution adopted on the 5th inst., authorizing the Controller to take the sum of \$109,107 from moneys received as liquor taxes and place the same to the credit of the Metropolitan Police Fund, be and the same is hereby rescinded, and further

Resolved, That the Controller be and he is hereby authoried to take the sum of \$113,148 from moneys received as liquor taxes (as per Chapter 11, Section 27, Charter Amendments 1895, and place the same to the credit of the Metropolitan Police Fund, instead of \$109,107 heretofore appropriated.

Adopted as follows:

Yeas—Ald. Atkinson, Barrie, Beamer, Campbell, Delmel, Freda, Hansjosten, Hillger, Houghton, Jerome, Keating, Koch, Koenig, Lemke, Liphardt, McGuire, Magee, Marx, Miller, Moeller, Mohn, Nevermann, Reinhardt, Smith, Snow, Steiger, Tossy, Weber, Weibel, Weiler, and the President—31.

Nays-None.

(May 9th, 1901.)

REPORT OF COMMITTEE OF WHOLE.

To the Honorable, the President of the Common Council:

Sir—The Committee of the Whole, who have had under consideration the estimates for the maintenance of public schools for the fiscal year 1901, beg leave to report that same has received careful consideration, and would recommend adoption of resolution herewith presented.

Very respectfully,

BASIL A. LEMKE.

Chairman.

Accepted.

The following is the resolution:

By Ald. Lemke:

Resolved, That the estimates of the Board of Education for maintenance of the public schools in the City of Detroit, for the fiscal year, ending June 30, 1902, be and are hereby allowed for the purposes and in the amounts herein specifically set forth:

For repairs, renovations and improvements to school buildings and grounds, as per itemized estimates (as per report of Committee on



For repairs to boiler and steam heating plants	2,000	00
For insurance premiums	742	00
For 7,000 tons Jackson Hill lump coal, for schools now established	22,500	00
For 5,000 tons Jackson Hill pea coal, for schools now established	15,000	00
For 250 tons anthracite coal for schools now established	1,375	00
For 800 tons Jackson Hill coal for new schools	1,275	00
For inspecting and weighing coal, 13,550 tons	1,050	00
For 100 cords hard wood	525	00
For 200 cords kindling	500	00
For supplies for use of janitors in care of buildings and grounds	3,000	00
For replacing worn out school desks and other school furniture	2,000	00
For cleaning and renovating old school furniture	2,500	00
For window shades to replace those worn out	500	00
For renc of building for Ungraded school	600	00
For rent of workshop and storeroom	600	00
For electric lighting current in 11 schools	900	00
For electric motor current in 8 schools	400	00
For fuel gas in 8 cooking centers and illuminating gas in 12 schools	200	00
For telephones in 25 schools and in office building	589	00
For purchasing pianos	1,000	00
For renting planos	1,000	00
For feed and incidentals in care of horse and wagon	200	00
For disinfectant	100	00
For free text-books in schools now established	15,000	00
For books, school supplies, etc., for new schools, 94 rooms	2,250	00
For repairs and rebinding books	2,500	00
For school supplies, maps, charts, globes, paper, blank books and		
stationery, for school records and reports	12,000	00
For Kindergarten supplies	1,500	00
For printing, advertising, blank books, stationery and postage, in		
general office expenses	2,500	00
For census enumeration and books	2,600	00
For Manual Training Centers extension and supplies	5,215	00
For pay roll of janitors and assistants, 74 schools, 12 months	74,045	00
For pay roll of janitors and assistants in 11 new schools and addi-		
tions, 10 months	1,300	00
For pay roll of janitors in 8 night schools	900	
•	17,160	00
(Estimated pay roll for 970 teachers for the month of September, 1901,		
excluding night school teachers, \$70,924 72)	700 047	90
For amount of 10 pay rolls for 970 teachers in schools now established 7	109,247	20

For schedule increase from January to July, 1902 3,724 30
For pay roll of night school teachers 9,000 00
For pay roll of 36 additional teachers in new schools for seven
months 11,960 00
For contingencies and for miscellaneous purposes that cannot be
foreseen or estimated 5,000 00
\$961,244 60
Items cut out of Building Fund by Board of Estimates and petitioned
for by Board of Education for allowance, to-wit:
56 new closets, Tappan school
25 new closets, Wilkins school
For slate blackboards to replace plaster 5,000 00
\$ 8,700 00
Total
Less estimated cash on hand June 30, 1901
Total for the Maintenance of schools
Less estimated income from Primary School money 105,000 00
Total allowed for maintenance of schools\$841,883 36

reas—Ald. Atkinson, Barrie, Campbell, Jerome, Keating, Koenig, Lemke, Liphardt, Magee, Marx, Miller, Mohn, Smith, Tossy, Weber, Weiler, Wildman, and the President—18.

Nays-None.

RESOLUTIONS.

By Ald, Lemke:

Resolved, By the Common Council of the City of Detroit, that there be assessed, levied and collected by general tax on the assessed valuation for the year 1901 of all the real and personal property within the City of Detroit taxable under the laws of the State of Michigan, the several sums and amounts as approved by the Board of Estimates and transmitted to this

body (including, also, amount approved by this council for maintenance of Public Schools) to defray the expenditures of the several funds for the fiscal year ending June 30, 1902:

For Detroit City Sinking Fund\$	8,876 00
For the Interest Fund	216,580 00
For the General Fund	191,821 50
For the Public Entertainment Fund	25,000 00
For the Garbage Fund	51,500 00
For the Street Opening Fund	89,262 88
For the Fire Department Retired and Pension Fund	9,544 80
For the Police Pension Fund	1,895 27
For the General Road Fund	222,449 00
For the Repaving Fund	340,459 00
For the Public Building Fund	8,250 00
For the Public Sewer Fund	105,994 00
For the Belle Isle Bridge Fund	8,100 00
For the Western Market Fund	100 00
For the Eastern Market Fund	150 00
For Road District Fund No. 1	22,000 00
For Road District Fund No. 2	20,000 00
For Road District Fund No. 3	8,000 00
For Road District Fund No. 4	12,000 00
For Road District Fund No. 5	9,000 00
For Road District Fund No. 6	8,000 00
For Road District Fund No. 7	8,000 00
For Road District Fund No. 8	8,000 00
For Road District Fund No. 9	8,000 00
For Road District Fund No. 10	7,000 00
For Road District Fund No. 11	7,000 00
For Road District Fund No. 12	7,000 00
For Road District Fund No. 18	7,000 00
For Road District Fund No. 14	7,000 00
For Road District Fund No. 15	7,000 00
For Road District Fund No. 16	7,000 00
For Road District Fund No. 17	8,000 00
For the Board of Public Works, General Fund	39,354 00
For the Public Health Fund	•••••

For the Recorder's Court Fund	14,700 00
For the Poor Commission Fund	•••••
For the Metropolitan Police Fund	426,632 00
For the Superannuated Police Fund	
For the Water Commission Fund	75,000 00
For the Public Library Fund	
For the Board of Education Fund	25,185 00
For the Fire Commission Fund	
For the Public Lighting Fund	153,828 00
For the Park and Boulevard Fund	145,265 00
•	
Total	eo 777 494 Be

Yeas—Ald. Atkinson, Barrie, Campbell, Jerome, Keating, Koenig, Lemke, Liphardt, Magee, Marx, Miller, Mohn, Smith, Tossy, Weber, Weiler, Wildman, and the President—18

Nays-None.

TABLE No. 135.

ASSESSED VALUATION, TAX LEVY AND RATE OF TAXATION, 1901.

ASSESSED VALUATION, TAX LEVY AND RATE OF TAXATION, 1901.

		Personal		
Ward.	Real Estate.	Property.	Total.	Tax Levy.
1	\$ 31,360,350	\$ 24,979,420	\$ 56,339,770	\$ 781,102 93
2	36,912,760	23,766,820	60,679,580	952,369 04
8	7,471,810	1,153,800	8,625,610	135,379 37
4	13,490,820	2,555,220	16,046,040	251,843 39
5	6,712,550	1,879,090	8,591,640	134,846 20
6.:	8,756, 35 0	1,533,590	10,289,940	161,501 11
7	5,857,250	3,824,900	9,682,150	151,961 80
8	8,285,830	830,310	9,116,140	143,078 25
9	7,145,220 .	2,108,610	9,253,830	145,239 33
10	7,166,480	1,066,970	8,233,450	129,224 40
11	5,882,070	1,503,810	7,385,880	115,921 75
12	5,792,210	965,160	6,757,870	106,057 25
13	6,025,110	1,193,840	7,218,950	113,301 78
14	5,813,380	1,884,980	7,698,360	120,826 14
15	6,144,520	1,178,850	7,323,370	114,940 67
16	4,866,850	512,850	5,379,700	84,434 65
17	8,083,060	543,660	8,626,720	135,396 80
Total	.\$175,766,620	\$ 71,481,890	\$247,248,500	\$3,777,424 86

Rate of taxaflon, \$15.69505 per \$1,000.

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Bath-house, Belle Isle, receipts from, 1893-1900	220
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ANNUAL REPORT

OF THE

CITY TREASURER

TO THE

COMMON COUNCIL,

OF THE

CITY OF DETROIT,

For the Fiscal Year 1900, Ending June 3(), 1901.



DETROIT:
THE THOS. SMITH PRESS,
1901

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ANNUAL REPORT

OF THE

CITY TREASURER

OF THE CITY OF DETROIT.

CITY TREASURER'S OFFICE,

DETROIT, June 30, 1901.

To the Honorable the Common Council:

GENTLEMEN:—In compliance with section 78 of the City Charter, it is my pleasure to submit herewith my third annual report as City Treasurer, covering the fiscal year 1900, ending June 30th, 1901.

The year just closed may well be termed the banner year in the history of the City Treasury, receiving an unprecedented climax in the month of June just passed when, by virtue of your resolution of May 14th, I was permitted to receive delinquent taxes at reduced rate of interest. The accumulation of the outstanding taxes during the last ten years had assumed colossal

proportions, but persistent agitation in these lines and the resultant crowning offer for the month of June just referred to caused the amount of these taxes to be reduced to the lowest figure since 1892. In a great measure, the collections were furthered by the policy which I have pursued since my incumbency of this office, namely, a systematic notification to delinquents of city liens against their holdings. Innumerable cases came to light and could be quoted where such notices were the first intimation to taxpayers that the city had claims against them for past due taxes, and which brought forth a prompt response and a grateful acknowledgment of the notice. Collections were also aided to some extent by the law passed by the Legislature two years ago compelling the issuance of certificates showing city taxes paid before property transfers could be recorded. Seven thousand and forty-five legal conveyances, incidentally, were examined during the year and certificates affixed thereto.

The financial result of this work to the city is evidenced by a reduction of the amount of such delinquent taxes from \$405,-950.03, when I assumed this office, to \$149,590.67 at the date hereof. During the year just closed, \$251,931.88 were collected, and of this amount \$116,449.30 was paid in during the month of June alone—this being by far the largest amount ever credited to the city's account from such source in the history of the office. The results accomplished have also been a source of peculiar gratification to me, inasmuch as the ordinary routine work of the office, increasing as it does naturally from day to day with the growth of the city, is onerous enough: yet the vast increase in work due to the activity in every department has been met by my regular staff and results accomplished through its efforts alone.

To provide for all times, I believe it opportune at this period to suggest to your honorable body that a system of notification be legally attached to the conduct of this office. The task is one of no mean proportions, but the financial gains derived therefrom to the city would be marked and, on the other hand, it would result in a large saving to taxpayers, especially where a demand for a tax title is involved. I would respectfully urge your honorable body to consider this matter with the end in view I have suggested.

The office was called upon during the year (as the result of a decision of the Supreme Court that assessments for water mains upon abuttant property were illegal) to refund \$13,993.96 which had been collected to defray the expense of laying such water mains. The work involved in finding the different tax-payers to whom refund was due necessitated correspondence to all parts of the country, but the amount has been reduced to \$149.99, and I have taken the liberty to append a list of those to whom the balance is payable. A list of those to whom street opening awards is due is also appended.

Respectfully submitted,
WILLIAM B. THOMPSON,
City Treasurer.

SINKING FUND.

The Detroit City Sinking Fund has on hand the following assets:
Cash on hand (Dime Savings Bank\$348,988 74
Street paving bonds 574,102 52
Detroit water bonds
City of Cleveland water bonds 150,000 00
Public improvement bonds 52,000 00
State of Michigan war loan 1898 bond 50,000 00
1 registered No. 1 sewer bond 50,000 00
Wayne County Building bonds 397,000 00
G. A. R. Memorial Bldg, bonds 38,000 00
Village of River Rouge bonds 36,000 00
- Jojoo oo
\$1,761,091 26
The following securities included in the above were pur-
chased by the City Sinking Fund Commission during the year:
chased by the City Sinking Fund Commission during the year:
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00
chased by the City Sinking Fund Commission during the year:
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 \$183,000 00 Financial statement:
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 Financial statement: Outstanding city bonds\$5,324,000 00
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 Financial statement: Outstanding city bonds \$5,324,000 00 Resources of sinking fund 1,761,091 26
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 Financial statement: Outstanding city bonds \$5,324,000 00 Resources of sinking fund 1,761,091 26 Net general debt \$3,562,908 74
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 Financial statement: Outstanding city bonds \$5,324,000 00 Resources of sinking fund 1,761,091 26
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 Financial statement: Outstanding city bonds \$5,324,000 00 Resources of sinking fund 1,761,091 26 Net general debt \$3,562,908 74
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 Financial statement: Outstanding city bonds \$5,324,000 00 Resources of sinking fund 1,761,091 26 Net general debt \$3,562,908 74 Net street paving bonded debt \$3,562,908 75 Total net general and street paving debt, June 30,
chased by the City Sinking Fund Commission during the year: 145 Wayne County Building bonds\$145,000 00 36 Village of River Rouge bonds 36,000 00 2 Public Improvement bonds 2,000 00 Financial statement: Outstanding city bonds \$5,324,000 00 Resources of sinking fund 1,761,091 26 Net general debt \$3,562,908 74 Net street paving bonded debt \$360,351 05 Total net general and street paving debt \$3,923,259 79

STATEMENT OF CASH ACCOUNT.

Amount of cash on hand July 1, 1900\$1,565,835 12
Amount received during the fiscal year 5,354,170 97
Total\$6,920,006 09
Amount of disbursements during the fiscal year 5,463,488 43
Balance cash on hand June 30, 1901\$1,456,517 66
Deposited in the following banks:
Commercial National Bank\$ 207,528 92
Dime Savings Bank
Peninsular Savings Bank 300,000 00
Detroit National Bank 300,000 00
American Exchange National Bank 300,000 00
\$1,456,517 66

STATEMENT SHOWING RECEIPTS AND DISBURSEMENTS OF CITY FUNDS BY MONTHS.

1900.	RECEIPTS.	DISBURSEMENTS.
July	\$1,273,874 65	\$ 962,348 31
August	2,156,886 67	1,090,407 45
September	161,960 31	441,076 74
October	174,925 48	609,101 71
November	215,719 60	429, 9 66 10
December	245,168 75	366,912 82
1901,		
January	96,385 15	268,490 96
February	101,769 01	243,838 62
March	132,253 16	247,831 42
April	109,822 76	217,112 20
May	165,638 88	262,728 57
June	519,766 55	3 ² 3, ⁶ 73 53
Totals	\$5,354,170 97	\$5,463,488 43
Balance July 1, 1900	1,565,835 12	
Balance July 1, 1901		1,456,517 66
	\$6,920,006 09	\$6,920,006 09

			Balance July 1, 1900.	Receipts.	Disbursements.	Balance July 1, 1901.
O	City Bills	:	:	\$251,340 24	\$251,340 24	
Д	Deficiency Fund	:	\$ 31,333 22	355,884 13	214,233 46	\$172,983 89
S	City Charges	:	:	35,725 21	35,725 21	
д	Percentages	:	:	39,465 97	39,465 97	
H	House of Correction	:	35,082 00	58.300 00	93,375 27	6 73
>	Water Pipes and Mains Refund	:		13,993 96	13,993 96	:
1	Licenses					
	Milk Depots\$ 560 o5	560 05	•	•		
	Newsboys	203 00	:	:		:
	Meat Shops	235 10	:	:	•	•
	Meat Peddlers	531 17	:			•
		216 85	:	:	•	•
Di		1,750 02	:	:	•	•
igitize	Peddlers 3	3,214 90	:	:		
d by	Drays	1,347 05		:		
G	Hacks, etc	748 90	:	:	:	•
ЭC	Hack Drivers	30 15	:	:		•
glo	Porters and Runners	50 00				•
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OF THE CITY OF DETROIT

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Disbursements. Balance July 1, 1901.													15,477 34			8,459 05	2,863 82	8	43,207 63
Receipts. Dish						:	:	:					15,477 34 15	:		8,459 05 8			43,207 63 43
Balance July 1, 1900.		:	:	:		:	:	:	:	:	:	:	:	:	:	:	2,863 82	85 01	:
	Theaters 624 70	Bakers 90 00	Dirt Wagons 414 50	Billiards 220 00	Second Hand Stores 108 00	Ferries 1,360 00	Ball Alleys 132 00	Night Lunch Wagons 100 00	Intelligence Offices 456 45	Dogs 2,794 65	Restaurants 197 35	Ticket Brokers 92 50		Market rents, Eastern Dist\$6,276 o5	Market rents, Western Dist 2,183 00	l	Lateral sewer refunding	Reservoir fund	Interest on deposits

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Balance July 1, 1901.	:	679 95	:	:	1,306 70	95 89	623 35	2,069 87	:		•	•	•	2,015 38	•		640 85	5 13		
Disbursements.	12,000 00	:	4,142 01	6,570 00	4,262 24	1,479 17	7,915 10	7,903 20	1,980 50	1,014 10	37 10	42 25	2,934 22	828 78	28,600 46	65,000 00	2,524 23	3,648 28	75 48	
Receipts.	12,000 00		4,142 01	6,570 00	2,314 08	1,400 00	7,315 00	12,951 01	1,980 50	1,014 10	37 10	42 25	2,934 22	658 77	28,600 46	65,000 00	3,129 32		75 48	
Balance July 1, 1900.		679 95	•	:	3,254 86	175 06	1,223 45	90 22	:		:	:	•	2,185 39	:	:	35 76	3,653 41	:	
	Art Museum	Street and alley opening legal tender	Charges on paving	Police Court fund	Superanuated Police fund	Police Pension fund	Fire Dept. Retired Pension fund	Public Entertainment fund	Hay scales, Eastern District	Hay scales, Western District	City Pound and Wood Market, E. Dist	City Pound and Wood Market, W. Dist.	Dog Pound	Redemption fund	ripiding and stationery	Garbage fund	Eastern Market fund	Western Market fund	Contractor's Interest fund	e

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	Palance July 1, 1901. 236,715 57	:	:	:	:	:	267,837 85	:	17,339 03	16,151 85		•	5,259 71	348.988 74	938 24	58,830 55	1,519 52	19 62,22	99,478 58	399 36	
ובת.	Disbursements. 257,531 86	899 00	32 00	1,439 05	488 74	4,132 60	274,973 19	1,063,270 61	569,413 91	693,760 56	75,000 00	53,034 20	7,985 43	400,593 54	205,517 50	320,702 47	44,021 95	133.390 76	51,625 92	35.989 37	
RECEIFIS, DISBURSEMEN IS AND BALANCES—COMMINGE	Receipts. 186,777 65	899 00	32 00	1.439 05	488 74	4,132 60	289,355 50	1,063.270 61	562,338 81	657,855 47	75,000 00	53.034 20	8,000 00	400,846 80	153,702 00	339.213 14	00 280:14	105,895 61	110,665 33	27,777 56	
DUKACMENTA AND	Balance July 1, 1900. 307,469 78						253,455 54		24,414 13	52,056 94		:	5.245 14	408,735 48	52.753 74	40.319 88	854 47	54.774 76	40:439 17	8,611 17	
KECEIFIS, DIS.	Street Paving Sinking and Interest fund	Charges, advertising and inspection	Charges, advertising sales	City collection fees	Interest on special assessments	Lateral Sewer inspection	Liquor License, fund	Board of Education fund	Metropolitan Police fund	Fire Commission fund	Water Commission fund	Public Library fund	Belle Isle Bridge fund	Detroit City Sinking Fund	Interest fund	General fund	Board of Public Works General fund	Public Lighting fund	Contingent fund	Public Health fund	

RECEIPTS, DISBURSEMENTS AND BALANCES-Continued.

in the latest terms of the	Balance July 1, 1960.	Receipts.	Disbursements.	Raiance July 1, 1901.
Poor Commission fund	175 61	55,939 86	54,587 81	1,527 66
Public Sewer fund	1,565 47	144,442 79	139,398 41	6,609 85
Public Building fund	9 37	8,405 30	7,845 77	568 90
G. A. R. Building fund	7,431 25	2,804 78	10,236 03	:
Park and Boulevard fund	4,682 63	194,702 61	190,207 37	9,177 87
Street Opening fund	4,610 25	12,787 93	16,517 22	96 088
Recorder's Court fund	947 34	13,359 50	14,273 99	32 85
General Road fund	4,772 25	334,228 05	317,354 82	21,645 48
Repaving fund	65,251 43	291,005 53	356,256 96	:
Road District No. 1 fund	11 9	26,232 95	26,239 06	:
Road District No. 2 fund	14 61	28,582 13	28,596 74	:
Road District No. 3 fund	595 50	00 000,11	11,595 50	
Road District No. 4 fund	158 81	17,598 45	17.757 26	:
Boad District No. 5 fund	134 44	00 005,6	9,634 44	:
Road District No. 6 fund	387 08	10,507 00	10,894 08	:
Road District No. 7 fund	3 45	9,054 20	9,057 65	
Road District No. 8 fund	351 44	8,000 00	8,351 44	:
Road District No. 9 fund	154 62	9,000 75	9,155 37	:
Road District No. 10 fund	87 97	8,000 75	8,088 72	:

BALANCES-Continued.
AND
DISBURSEMENTS
RECEIPTS,

	Balance July 1, 1900.	Receipts.	Disbursements.	Balance July 1, 1901
Road District No. 11 fund	314 53	8,000 00	8,314 53	
Road District No. 12 fund	409 40	8,017 25	8,426 65	
Road District No. 13 fund	68 81	8,000 00	8,068 81	
Road District No. 14 fund	1,425 95	2,000 00	8,425 95	
Road District No. 15 fund	338 49	8,001 50	8,339 99	
Road District No. 16 fund	1,201 73	2,000 00	8,201 73	:
Road District No. 17 fund	344 08	9,003 56	9,347 64	
Opening Orleans street	:	11,603 00	11,603 00	
Opening Scovel place	:	4,110 00	4,110 00	
Opening Twenty-sixth street	:	3,027 25	3,027 25	:
Opening Fifteenth street	:	2,352 64	2,352 64	:
Opening Moore place	:	2,271 00	2,271 00	:
Opening Eastern place		2,742 00	2,742 00	
Opening Brown place		1,674 40	1,674 40	
Opening Stanley avenue	:	3,682 00	3,682 00	•
()pening Theodore street	:	17,803 49	17,803 49	
Park Improvement fund	149,567 15	:	1,439 22	148,127 93
Asphalt Plant fund	:	9,804 82	75 00	9,729 82

STANDOOD X TANDOOD	Balance July 1, 1900.	Receipts.	Disbursements.	Balance July 1, 1901.
J. Corey	•	26 90	o6 9z	
J. Kessler	•	21 69	<i>L</i> 1 69	:
F. Gies	:	43 68	43 68	
J. McInnis	:	21 70	21 70	
J. Crowley	:	45 64	45 64	:
H. T. Bush	:	146 03	146 03	
Theo. Funke	:	2 00	5 00	
C. A. Cook	:	90 72	90 72	
W. H. Maxwell	•	19 50	19 50	•
LATERAL SEWER ACCOUNTS:				
Julius Porath	:	760 38	760 38	•
Ferd. Porath	:	4,259 91	4,259 91	:
Wm. Porath	:	9,721 45	9,721 45	:
T. G. Whittaker	:	2,589 00	2,589 00	
Aug. Koss	:	1,705 97	1,705 97	:
Jas. Grant	:	436 02	436 02	
J. A. Mercier	:	1,617 22	1,617 22	:
Jno. Jeynes	:	1,178 24	1,178 24	
Geo. Jeynes	:	482 00	. 482 00	:

OF THE CITY OF DETROIT

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		Balance July 1, 1900.	Receipts.	Disbursements.	Balance July 1, 1901.
	Liphardt & Winterhalter	:	89 216	89 416	
	Jno. Affeld	:	9,134 32	9,134 32	:
	Jno. Affeld & Son	:	607 25	(507 25	:
	J. W. Hoeft	:	500 60	500 60	:
	Geo. E. Currie	:	2,164 70	2,164 70	:
	Jno. Wagner	:	326 45	326 45	:
	W. H. Whittaker	:	10,938 66	10.938 66	:
	A. C. Lloyd	:	3.813 15	3.813 15	:
	Patk. Dee	:	197 65	197 65.	
	Thos. Quinlan	:	20 61	20 61	
	Jos. Granger	:	13 65	13 65	
	H. F. Liphardt	:	60 51	60 51	:
	Henry Bloss	:	278 80	278 80	:
	G. W. Winterhalter	:	703 64	703 64	:
Е	ALLEY PAVING ACCOUNTS:				
igitiz	Liphardt & Winterhalter	:	3.140 17	3.140 17	:
ed by	Henry Merdian	:	444 71	444 71	:
G	Arch'd Grant	:	55 27	55 27	
00	Julius Porath	:	152 27	152 27	:
2					

						OF T	ie c	ITY	OF	DET	ROIT	•						17
Balance July 1, 1901.	:	:				:		:	:				:		:	:		
Disbursements.	3.418 58	171 45	1.406 75	36 54	68 77	49 74		2,092 93	598 95	55 59	381 38	98 129	1,812 71	552 31	1,509 08	937 95	1,172 95	884 36
Receipts.	3.418 58	171 45	1,406 75	36 54	68 77	49 74		2,00,2	598 95	55 59	381 38	98 129	1,812 71	552 31	80 695,1	937 95	1,172 95	884 36
Balance July 1, 1900.	:					:		:		:				•		•	:	
	J. A. Mercier	Geo. W. Winterhalter	J. McLaughlin & Co	Western Bermudez Co	T. J. Kennedy	Repairing areas, Batchelder, Wasmund & Co	STREET PAVING ACCOUNTS:	Boston Boulevard, T. J. Kennedy	Frank street, Jul. Porath	Seventeenth street, Colin, Munro & Co	Alfred street, Arch'd Grant	Euclid avenue, A. C. Lloyd	Grummond, Jas. Hanley	Rosedale Court, Amer Contracting Co	Gratiot avenue, Arch'd Grant	Clark avenue, Jas. Grant	Gratiot avenue, Arch'd Grant	Van Dyke avenue, Geo. E. Currie

RECEIPTS, DISBURSEMENTS AND BALANCES-Continued.

	Balance July 1, 1900,	. Receipts.	Disburse ments.	Ralance July 1, 1991
Van Dyke avenue, G. E. Currie		493 81	493 81	:
Maybury Grand avenue, A. C. Lloyd		1,488 02	1,488 02	
River street, H. Frederick		705 83	705 83	:
Eighth street, J. A. Stewart		99 88	99 88	:
Harrison avenue, Talbot Paving Co		12 90	12 90	:
Twelfth street, Talbot aving Co		15 03	15 03	:
Total Ciross Receipts, Disbursements and Balances	\$1.574.733 96	\$6.454.709 64		\$6.564.027 10 \$1.465.416 50
Total Cash Receipts and Disbursements		\$5.354.170 97	\$5.354.170 97 \$5.463.488 43	
Deduct Suspense account	\$ 808.8 \$			\$ 8.898 84
(ash Balance, July 1, 1900	. \$1.565.835 12	Cash Balance, J	Cash Balance, July 1, 1901\$1,456,517 66	\$1.456.517 66

THE FOLLOWING TRANSFERS AUTHORIZED BY CITY CHARTER AND RESOLUTIONS OF COMMON COUNCIL WERE MADE DURING THE YEAR.

FROM

Deficiency fund\$ 214,233 46	
то	
Repaving fund\$	43,819 4
General Road fund	31,578 75
Public Sewer fund	13,812 18
Interest	12,788 38
Recorder's Court	886 27
Board of Education	27,463 61
Metropolitan Police	15,596 80
Water Commission	2,396 33
Fire Commission	21,000 56
Public Library	1,698 67
General	7,020 84
Park and Boulevard	5,567 04
Public Building	259 74
Public Lighting	3,072 39
Garbage	2,096 85
B. P. W., General	1,389 81
Eastern Market	103 29
Fire Dept., Retired and Pension	232 78
Police Pension	47 93
Superannuated Police	26 92
Belle Isle Bridge	252 44
Road District No. 1	3,022 44
Road District No. 2	3.022 41



Road District No. 3	1,208	69
Road District No. 4	1,661	77
Road District No. 5	1,208	69
Road District No. 6	1,208	69
Road District No. 7	1,208	69
Road District No. 8	1,058	ΙI
Road District No. 9	1,208	69
Road District No. 10	1,058	11
Road District No. 11	1,058	11
Road District No. 12	1,058	11
Road District No. 13	1,058	11
Road District No. 14	907	48
Road District No. 15	1,058	11
Road District No. 16	907	48
Road District No. 17	1,208	69
\$	214,233	46
\$ FROM	214,233	4 6
	214,233	46
FROM	214,233	46
House of Correction\$ 93.375 27	12,951	
House of Correction\$ 93.375 27	•	10
House of Correction\$ 93.375 27 TO Public Entertainment	12,951	o1 50
House of Correction\$ 93.375 27 TO Public Entertainment	12,951 231	01 50 00
House of Correction\$ 93.375 27 TO Public Entertainment	12,951 231 500	01 50 00 67
House of Correction \$93.375 27 TO Public Entertainment \$ General \$ Public Building \$ Street Opening \$ \$\$	12,951 231 500 9,175	oi 50 oo 67 75
House of Correction\$ 93.375 27 TO Public Entertainment	12,951 231 500 9,175 20,405	oi 50 00 67 75 78
House of Correction \$93.375 27 TO Public Entertainment \$ General \$ Public Building \$ Street Opening \$ General Road \$ G. A. R. Building \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	12,951 231 500 9,175 20,405 2,804	oī 50 00 67 75 78 00
House of Correction. \$ 93.375 27 TO Public Entertainment. General Public Building. Street Opening. General Road. G. A. R. Building. Contingent	12,951 231 500 9,175 20,405 2,804 2,502	or 50 00 67 75 78 00 56
House of Correction. \$ 93.375 27 TO Public Entertainment. General Public Building. Street Opening. General Road. G. A. R. Building. Contingent Public Health.	12,951 231 500 9,175 20,405 2,804 2,502 6,554	oī 50 00 67 75 78 00 56 00
House of Correction. \$ 93.375 27 TO Public Entertainment. General Public Building. Street Opening. General Road. G. A. R. Building. Contingent Public Health. Park and Boulevard.	12,951 231 500 9,175 20,405 2,804 2,502 6,554 250	01 50 03 67 75 78 00 56 00

Road District No. 4	6,000 00
Road District No. 5	1,500 00
Road District No. 6	2,500 0 0
Road District No. 7	CO 000,1
Road District No. 8	00 000,1
Road District No. 9	co coo,1
Road District No. 10	00 000,1
Road District No. 11	00 000,1
Road District No. 12	00 000,1
Road District No. 13	CO COO, 1
Road District No. 14	00 CCC,1
Road District No. 15	CO COO, 1
Road District No. 16	co cco,1
Road District No. 17	00 CC0,1

\$ 93.375 27

FPOM

Public Entertainment	.\$ 1,500	co
Road District No. 1	. 3,200	00
Road District No. 2	. 5,000	00
Road District No. 3	. 2,000	00
Road District No. 4	. 4,000	00
Road District No. 5	. 1,600	OO
Road District No. 6	. 2,000	OO
Road District No. 7	. 1,500	00
Road District No. 8	. 1,000	CO
Road District No. 11	. 1,000	OO
Road District No. 15	. 500	()')

^{\$ 23,300 00}

TO	
House of Correction	23.300 00
, 11.0М	
Contingent\$ 1,500 00	
то	
Public Health\$	1,500 00
FROM	
Liquor License \$ 274.973 19	
то	
Metropolitan Police\$	75,500 00
Poor Commission	55,500 00
Public Health	19,723 00
Contingent	102,732 54
Opening Orleans street	5,095 27
Opening Twenty-sixth street	1,033 17
Opening Brown Place	804 40
Opening Moore Place	983 10
Opening Eastern Place	1,334 60
Opening Scovel Place	1.760 00
Opening Theodore street	7.275 49
Opening Fifteenth street	785 29
Opening Stanley avenue	2,446 33
FROM	
Charges on Paving \$ 72 26	
Repaying 7.457 66	
Road District No. 3 471 42	
Road District No. 5 459 32	
Road District No. 6 252 74	
Road District No. 7 900 77	
Road District No. 8 377 29	

D 1 D' 1 L N	0 .	
Road District No. 9\$	1,202 81	
Road District No. 10	760 34	
Road District No. 11	613 40	
Road District No. 12	1,587 67	
Road District No. 13	1,348 <i>7</i> 8	
Road District No. 14	1,865 32	
Road District No. 15	1,985 81	
Road District No. 16	1,276 27	
Road District No. 17	2,098 84	
•	22,730 70	
Ψ	22,/30 /0	
то		
General Road	\$	22.730 70
FROM		
General Road\$	12,201 65	
то		
Repaying	\$	00 000,1
Asphalt Plant		9,804 82
Road District No. 1		232 20
Road District No. 2		577 62
Road District No. 4		587 OI
·		,
FROM		
General\$	43,695 18	
то		
Art Museum	\$	12,000 00
Park and Boulevard		600 00
Printing and Stationery		28,600 46
Dog Pound		2,494 72
-		

FROM						
Licenses	\$	15,477	34			:
Market rents	,	8,459	05			
City charges		35,725	21			•
City Pound, Eastern District		31	54			
City Pound, Western District		42	25			•
Hay Scales, Eastern District		1,980	50			٠
Hay Scales, Western District		1,014	10			
Charges advertising sales		32	00			
City collection fees	•	1,437	74			
Police Court	•	6,570	00	•		
•	_					
	\$	70,769	73			
ТО					_	
General	• • •	•••••	• • •	.\$	70,769	73
FROM						
Charges advertising an inspection.	\$	899	00			
Charges on Paving		4,069	<i>7</i> 5			
·			—			
	\$	4,968	7 5			
то						
General Road	• •	• • • • • • •	• • •	.\$	4,968	<i>7</i> 5
FROM						
Interest on special assessments	\$	488	74			
то						
Contractor's Interest				œ	75	4 Q
Public Sewer				•		•
General Road					47	02
Park and Boulevard					10	
Street Opening					255	29 72
writer syptiming	••		• • •		355	
				\$	488	74

FROM
Interest on deposits\$ 43,066 40
Percentages 39,465 97
\$ 82.532 37
Detroit City Sinking fund
FROM
Lateral sewer inspection\$ 4,132 60
· · ·
Public Sewer fund
FROM
Aggregate city bids\$ 251,340 24
TO TO
Deficiency
FROM
Street Paving, Sinking and Interest.\$ 27 28
TO TO
J. H. Farwell\$ 27 28
FROM
Opening Moore place\$ 214 00
•
() transing Feature place
Opening Eastern place\$ 214 00
FROM
Road District No. 9
TO
Road District No. 8
FROM
City collection fees \$ 1 31
TO
Water pipes and mains
Total amount transfers\$1,100 538 67 \$1,100,538 67

CITY TREASURER'S TRIAL BALANCE

For the Month of June, 1901.

DR.

Cash	\$1.456,517_66
City bids, 1855\$	56 83
City bids, 1856	33 41
City bids, 1857	24 53
City bids, 1858	51 20
City bids, 1859	66 42
City bids, 1860	52
City bids, 1861	6 o3
City bids, 1862	17 44
City bids, 1863	72 41
City bids, 1864	19 82
City bids, 1865	346 04
City bids, 1866	28 20
City bids, 1867	28 19
City bids, 1868	34 53
City bids, 1869	44 81
City bids, 1870	43 c6
City bids, 1871	56 73
City bids, 1872	137 86
City bids, 1873	329 62
City bids, 1874	562-66
City bids, 1875	617 08
City bids, 1876	559 03

City bids, 1877 538 16		
City bids, 1878 426 99		
City bids, 1879 558 87		
City bids, 1880 617 49		
City bids, 1881 714 61		
City bids, 1882		
City bids, 1883 1,028 43		
City bids, 1884 1,461 60		
City bids, 1885 417 20		
City bids, 1886 435 29		•
City bids, 1887 853 79		
City bids, 1888 807 18		
City bids, 1889 2,455 51		
City bids, 1890 1,383 16		
City bids, 1891 2,582 79		
City bids, 1892 3,421 30		
City bids, 1893 5.659 47		
City bids, 1894 5.377 79		
City bids, 1895 8.486 59	•	
City bids, 1896 12,729 55		
City bids, 1897 17.972 58		
City bids, 1898 18,028 42		
City bids, 1899 26,950 83		
City bids, 1900 33,188 33	149,590	67
Receiver of Taxes and City Treasurer change ac-		
count	. 225	00
Receiver of Taxes, special assessment rolls	329,599	91
City Treasurer's special assessment, city bids	165,065	54
Receiver of Taxes, general tax levy	129,073	74
Suspense account	8,898	84
Public Sewer loan	1,800,000	00
Public Improvement loan	550,000	oc

Public Lighting loan. 650,000 Public School loan. 1,006,000 Public Building loan. 38,000 Boulevard Improvement loan 500,000 Park Improvement loan 550,000 Park and Boulevard loan 230,000 Street Paving loan 574,100 Strong Box account 1,412,100	00 00 00 00 00 00 00 00 00 06 02 52 02 52
	•
CR.	
Deficiency fund\$ 172,98	3 89
Aggregate city bids	0 67
Receiver of Taxes and City Treasurer, change ac-	
count 22	25 00
Special assessment rolls	9 91
Special assessment, city bids 165,06	55 54
Tax levy	'3 7 4
Lateral Sewer refunding	53 82
Reservoir fund	35 oı
Outstanding city bonds 5,324,00	ю оо
Outstanding street paving bonds 574,10	12 52
Sinking Fund Bond account	12 52
Street and alley opening legal tender 67	9 95
-	o6 70
Police Pension fund	5 89
	3 35
Public Entertainment fund	69 87
	5 38
	ρο 85
Western Market fund	5 13

Street Paving, Sinking and Interest fund	236,715	57
Liquor License	267.837	85
Metropolitan Police fund	17.339	03
Fire Commission fund	16,151	85
Belle Isle Bridge fund	5.259	71
Detroit City Sinking fund	348,988	74
Interest fund	938	24
General fund	58,830	55
Board of Public Works, General fund	1,519	52
Public Lighting fund	27,279	61
Contingent fund	59. 478	58
Public Health	3 99	36
Poor Commission fund	1,527	66
Public Sewer fund	6,609	85
Public Building fund	568	90
Park and Boulevard fund	9.177	87
Street Opening fund	88o	96
Recorder's Court	32	85
General Road fund	21,645	48
House of Correction	6	73
Park Improvement fund	148,127	93
Asphalt plant	9.729	82

\$9.549.176 40



COLLECTIONS DURING THE YEAR ON BACK CITY TAXES.

1857\$	13	53
1859	50	55
1860	50	40
1866	2	98
1857	8	39
1872	3	10
1874	12	36
1875	13	36
1876	158	20
1877	1 7 6	70
1878	150	74
1879	38	33
	27	83
1881	35	37
1882	261	99
1883	133	
1884	259	66
1885	60	31
1886	412	95
1887	544	23
1888	595	75
1880	1.167	
1899	964	
1801	1.713	•
		•

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1892 3,506 65	
1893 4,270 00	
1894 7.478 37	
1895 8,216 16	
1896 12,227 94	
1897 27,148 35	
1898 45.474 96	
1899 135,094 07	
1900 1,659 37	
\$251,931	88

UNCOLLECTED TAXES.

The following embrace all the Uncollected General City Taxes by years:

1855	\$ 56 83
1856	 33 41
1857	 24 53
1858	 51 26
1859	 66 42
1860	 52
1861	 6 оз
1862	 17 44
1863	 72 4I
1864	 19 82
1865	 346 04
1866	 28 29
1867	 28 19
1808	 34 53
1869	 44 81
1870	 43 05
1871	 56 73
1872	 137 86
1873	 329 62
1874	 562 66
1875	 617 c8
1876	 559 o3

1877	 	538-16
1878	 	426 99
1879	 	558 87
1880	 	617-49
1881	 	714-61
1882	 	358 17
1883	 	1,028 43
1884	 	1,461-60
1885	 	417 20
1886	 	435 29
1887	 	853 <i>7</i> 9
1888	 	807 18
1889	 	2,455 51
1800	 	1,383 16
1891	 	2,582 79
1892	 	3,421 30
1893	 	5.659 47
1894	 	5·377 79
1895	 	8,486 59
1896	 	12.720 55
1897	 	17.072 58
1898	 	18.028 42
1800	 	25,950-83
1000	 	33.188 33

-----\$149,500 07

TOTAL AMOUNT OF UNCOLLECTED CITY TAXES AT END OF EACH FISCAL YEAR.

June	30,	1889	62,346 53
**	• 6	1890	70,386 31
**	"	1891	80,547 20
**	• 6	1892	94,463 20
46	• •	1893	121,596 83
44	46	1894	201,612 29
••	**	1895	258,986 34
• 6	"	1896	316,339 88
**	"	1897	
••	• •	1898	405,905 03
••	**	1899	429,993 62
**	• 6	1900	366,674 85
••	••	1901	149,590 67

AMOUNT OF SALES BOOK FOR DELINQUENT GENERAL TAXES AS RETURNED BY RECEIVER OF TAXES EACH YEAR.

June	3 0,	1889	21,232 56
• 6	**	1890	39.721 90
	"	1891	40,105 88
••	"	1892	44.952 56
44	**	1893	62,785 06
**	"	1894	121,812 18
	• •	1895	
"	"	1896	
"	• 6	1897	
"	"	1898	
• •	4.	1899	
• •		1900	-
	"	•	-
•		1901	34,847 <i>7</i> 0

COLLECTION OF GENERAL CITY BIDS OR BACK TAXES DURING EACH YEAR.

June	30,	1889\$	19,624	53
••	••	093	24,608	83
••	• 6	1891	23,807	81
• •	"	1892	31,287	32
• •	"	1893	36,415	56
••	"	1894	41,772	69
••	"	1895	92,839	62
••	"	1895	116,562	oı
••	• •	1897	154,863	69
••	• 6	1898	185,516	64
• •	46	1899	192,169	69
••	• 6	1900	228,396	13
• 6		1901	251,931	88

SPECIFIC TAXES.

The following amounts were paid in to the city treasury as Specific Treasury for the year ending December 31, 1900:

Detroit Citizens' Street Railway Company.
July 27, 1900\$ 9,162 61 (Representing two per cent. of the gross receipts, \$459,630.57, from Jan. 1, 1900, to June 30, 1900.)
Fort Wayne & Belle Isle Railway Company.
July 27, 1900
Detroit United Railway.
Feb. 25, 1901
Detroit United Railway (Successor to Fort Wayne & Belle Isle Railway.)
Feb. 25, 1901
Detroit United Railway (Successor to Grand River Street Railway Company.)
Feb. 25, 1001\$ 2.850 58

(Representing one per cent. of the gross receipts, \$285,058 27, from Jan. 1, 1900, to Dec. 31, 1900.)

Fort Street Union Depot Company.

July 31, 1900......\$ 2,869 44

(Representing 2½ per cent. of the gross earnings, \$114,777 66, from Jan. 1, 1899, to Dec. 31, 1899.)

Total paid into city treasury as specific taxes...\$28,094 50

The following is an extract of the text of the law requiring City Treasurer's certificate, showing that all back taxes have been paid, on deeds, mortgages, etc., before they can be placed on record. The law went into effect September 23, 1900.

CERTIFICATES OF TAKES PAID.

Issued on deeds and mortgages as required by an amendment to the city charter, approved May 2, 1899.

Number issued from July 1, 1900, to June 30, 1901, 7,045.

No charge is made for the tax certificates, and they are issued immediately upon application so that all annoying delays are avoided. The following is a synopsis of the amendment to the act relative to garnishee proceedings. The law went into effect Sept. 23, 1899.

Municipal corporations may be proceeded against as garnishees with like effect as individuals. Summons may be served on principal officers of corporations, treasurer, controller, or whoever may have knowledge of the facts in question. A failure to answer summons will hold corporation subject to the payment of the judgment against the defendant with liberty to appeal to circuit court by the corporation. The corporation, by its proper officer, having answered summons, shall hold any moneys, property, etc., belonging to the defendant until the final disposition, unless sooner released by order of the justice. A defendant may release money, by giving a bond double the amount claimed by the plaintiff in the action pending, bondsman paying costs on recovery by plaintiff.

GARNISHMENTS.

From September 23, 1899 (date law went into effect), to	June
30, 1901 :	
Number of cases begun	281
Number of cases finished	277
Number of cases pending	

The following is a list of taxpayers whose names appear on the Water Main Refund Roll and who have to date not claimed the amounts due them:

W. C. Gutow\$	ΙI	43
Estate of H. Keenan	6	09
Mrs. R. G. Marsh	11	14
F. Griener	ΙI	20
C. J. Holmes (adm'r)	9	76
H. Yager	6	86
T. W. Robinson	6	oc
Margaret Hughes	11	55
Jesse M. Bucheir	8	49
W. J. Burns	31	98
Mrs. L. M. Sprague	II	49
J. M. Lyman	11	49
William Feldman	12	45
Total \$	T 40	

STREET AND ALLEY OPENING AWARD FUND.

Following is a list of names of unpaid Street and Alley Opening Awards, January 1, 1901.

649. St. Paul avenue	8 I		Albert Crane and Anna Crane	Union Trust Co., N. Y	00 1	James Dean		01
	Jackson street	Langley avenue	Albert Crane and Anna Crane. Wm. and Jno. Simpson (Ex. 6 Graw)		Brush street	Superior street	Street	Cyrus Johnson

STREET AND ALLEY OPENING FUND-Continued.

ROLL

					0	F T	HE (CITY	OF	DET	ROIT	r						43	
AMOUNTS.	OI	10	10	8 1	8 1	50	8 1	8 1	I 00	50	50	10 00	8 1	8	8 1	8 1	8 1	1 8	
NAMES.	James A. Wallace	Lyman Cockran	Owen L. Ballard	. Henry G. Hubbard	Kate L. Hubbard	Bernard F. Gardner	Michael Weidenbach	Moses Hess	Mary E. Fuller	Maria Fitzpatrick	Margaret Fitzpatrick	.Susan McGregor	Geo. Abrey and Herb. Bowen	Phebe Williams	.Wm. Smith	.Theo. H. Hinchman	Louisa C. Hinchman	Mich. Sav. Bank	
STREETS.			,	668. Alexandrine avenue				Warren and Plymouth avenuesMoses Hess				Buchanan street			Toledo avenue	Canfield avenue		Stanley avenue	
NO.				.899				673.				.080		Digit	% ized l	oy (Oc	0g 0g	le

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ROLL			
NO.	STREETS.	NAMES.	AMOUNTS.
698.	698. Langley avenue	Wm, A. Eldridge	1 00
		Florence Eldridge	1 00
701.	Sixteenth street	Clara Messmore	I 00
		Marion Jane Bendelon	00 1
702.	Mt. Elliott avenue	Fred. Graham	I 00
		City of Detroit	00 1
		Phillip Lambert	24 00
		Louisa Lambert	1 00
703.	703. Jefferson avenue	Board Water Commissioners	1 00
722.	Ellery street	Aug. Kalavakowski	49 09
		Diederien Loepp	и 8
723.	Poplar street	Sophia Mecklenberg	5 00
747.	Seventh street	Anna A. Ferris	00 I
	Eleventh street	Unknown roll sent to court (Luther Beecher case) not	
		returned	40
164.	Mack avenue	Fred and Agnes Opificurs	2 16
		Fred Walz	1 08
729.	Sylvester street	Mary E. Barnard	01 1

STREET AND ALLEY OPENING FUND-Continued.

ROLL	E.			
NO.	Ċ	STREETS.	NAMES. AMC	AMOUNTS.
732.		avenue	Hibbard Baker	5 64
ž	5. Field avenue	nue	John S. Foley	I 13
			Julia Krefft	I 13
			Elizabeth Brinkmann	1 13
			James Harmon and Wendlin Springer	2 25
			Fred. Pagel	1 13
			Eliz. Pagel	I 13
71.	712. Campau avenue	avenue	Bertha Essler	00 I
			Fred. Schwein	8
			Minnie Remmick	00 I
			Am. Banking and Sav. Association	00 I
			Peter Meinarth	8
			Lizzie Schmidt	8
65	•		Jessie Knight	8
8	666. Alley	•	Matild. Hoff\$	8
	•		Serenah L. Tennis	25 00
			Celia A. Maynard	24 00
			Leonard Greimer	00 I
			Jane W. Foster	50 00
			Comielle DeVogelaer	20
•			Mary DeVogelaer	50
		•	Joseph Kagemann	00 I

			STREET A	STREET AND ALLEY OPENING FUND—Continued.	
	ROLL				
	NO.		STREETS.		AMOUNTS.
				Clara J. DeVos	1
				Clarence M. Burton	8 1
	706.	706. Alley		Caroline Gartner	8
				City Savings Bank	8
	710.	Alley	Alley	Theo. H. Eaton	8
				Eliz, W. Eaton	8 1
	715.	Alley		Mechanics' Bank	8
	716.			Fred Kelley	13 00
				Annie Kelley	8
				Mary Walker, Lydia A. Stevenson, Francis L. Steven-	
				son, Wm. L. Stevenson	15 00
	720.	720. Alley		Frank Richards	4
		ı		Carl H. Michell	4 00
				Mary H. Michell	8
				People's Savings Bank	8 1
	724.	724. Alley		Christian Serenberg	8
				Benj. Jacobson	8
Digiti				Wayne County Savings Bank	8
ized				Anthony Newhauser, Adolph Rhinberg	8
by (Morris Fridenberg	8
_				Harry Galowski	8
00	730.	730. Alley		John Hermann	8
ogl				Christ, C. Raahl	00 I
(

STREEET AND ALLEY OPENING FUND-Continued.

							•)F	THI	E C	ITY	OF	D	ETR	OIT	•							•	\$7	
AMOUNTS.		91 80	216 84	24 23	8		59 28	о і	8 1	8 1	8 1	20 00	3 00	8 1	3 00	4 8	4 80	8 8	4 00	8 I	8 1	00 I	5	203 17	
NAMES.	. Sarah E. Lovett, Wm. Watson Lovett, Wm. P. Thomp-	son nos	Sarah E. Lovett, Wm. Watson Lovett	Alfred Hussan	Geo. and Charlotte Soellmar	Sarah E. Lovett, Wm. Watson Lovett, Edward C. Al-	drich	.Bela Hubbard	Michael and Alice Dolan	John Kretcher	John L. and Florence Becker	. Eliz. M. W. Schroeder	Mich. Hammond	Mary Hammond	Thomas Kinnucan	Thomas A. Reeder	Dr. Wm. Atchison	Traugott and Mary Schmidt	Philip Daiber	.Robert Girvin	Lena Girvin	Board of Education	Walter Crane	.Eva Jacob	
STREETS.	746. Alley							755. Alley				756. Alley								758. Alley				813. McGraw avenue	
NO.	746.							755.				756.						D	igitiz	228.	by (ر ال) (813.	(

-																								
	AMOUNTS.	251 59	00 I	00 I	1 00	401 00	8 1	8 1	5 70	1 05	15 68	1 05	1 05	1 05	15 68	1 05	I 05	2,245 or	981 25	4 17	97		\$5,189 24	
STREET AND ALLHY OPENING FUND-Continued.	STREETS. NAMES.		815. Warren avenueAdelheide Aue	W. B. Wreford	James and F. B. Wallace	Holcomb avenue	Flora Miner	Susan O'Dell	Dragoon avenue	Kirby avenue	J. M. Swick	Stone & Hall	Sam'l Ellsworth	Yeomans Lumber Co	Caroline Widman	C. E. De Clements	D. A. McLeod	Second avenue	Maansur streetElizabeth Fuller	D		-	Total	
1 100	NO.		$\overline{\mathbf{c}}$			812.			820.	818.								8	2	81	8			

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ABOUT PAYING TAXES.

General City taxes are due on the 1st day of July of each year and are payable without penalty or interest on any day of the month of July. Ten days extra time or until the 1oth of August, is allowed to those who furnish the Receiver with a list on or before July 25th of the property on which they intend to pay. On August 1st, and on the first day of each succeeding month including January next following the date when general city taxes become due, one per cent is added to all unpaid city taxes in the hands of the Receiver. From January 1st to date or sale, June 1st next following, interest at the rate of 10 per cent per annum is added.

Special Taxes, which include paving, sewer, street opening and sidewalk assessments, are payable in the special tax department of the Receiver. The time for payment and the sale for special taxes varies according to the time the assessment is made.

After sale, all City taxes both general and special, are payable to the City Treasurer and bear interest at the rate of 10 per cent per annum until paid, if sold to the city. If sold to outsiders, one year is given for redemption, after which time settlement must be made with the purchaser. The price which they may charge is not regulated by law. The charter provides that taxes bid in by the city may be purchased at private sale at any time, but under the present administration no such sale is made until the person named as owner in the last recorded transfer is notified.

The financial department of the Treasurer's office is in charge of the Deputy Treasurer, assisted by the bookkeeper and one clerk.

The back tax department is in charge of the chief clerk assisted by three clerks and one assistant clerk.

The Pay department is in charge of the Paymaster and one clerk.

All departments are under the personal supervision of the Treasurer.

CHIEF ACCOUNTANT'S CERTIFICATE.

Chief Accountant's Office,
Detroit, June 30th, 1901.

I hereby certify that I have carefully examined the foregoing accounts in the office of the City Treasurer, and find same to be a true and correct statement of the receipts and disbursements of the office for the fiscal year 1900, ending June 30th, 1901.

Dr. Francis J. Ducat,
Chief Accountant.

CITY TREASURERS OF CITY OF DETROIT.

```
1816-17—Oliver W. Miller.

1818 — Louis Dequindre.

1819 — Abraham Wendell.

1820 — Thomas Rowland.

1821 — Joseph Campau.

1822 — Levi Cook.

1823 — Calvin Baker.

1824 — Peter Desnoyers.

1824 — Peter Desnoyers.

1826 — James T. Penny.

1830 - 5—Randall S. Rice.

1836 — David French.

1837 — Peter Desnoyers.
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- 1838—Peter Desnoyers was appointed Treasurer, but refused to accept the office because of inadequacy of salary (\$450), and Cornelius Wicware was appointed in his place April 14, 1838, and resigned August 7, 1838, Jerry Dean was appointed Treasurer Aug. 14, 1838, but he declined the appointment.
- 1838 John Farmer, elected by the Common Council Aug. 14, 1838.
- 1839—John Constantine Williams, 1862- 6—Allen A. Rabineaa
- 1840- 2—Francis X. Cicotte. 1866-71—Edward S. Leadbeater.
- 1842- 4—Daniel J. Campau. Edwin C. Hinsdale appointed
 Treasurer July 7th, 1871, Lead-
- 1846 —David Smart. heater having died. 1871-6—Edwin C. Hinsdale.
- 1847 John Winder. 1876-84—William Parkinson.
- 1848-50—William A. Howard. 1884-88—John S. Schmitdiel.
- 1850-54—Nathan B. Carpenter 1888-92—Thomas P. Tuite.
- 1854-60—John Campbell. 1892-98—Louis B. Littlefield.
- 1860- 1-Daniel P. Bushnell. 1898 -William B. Thompson.

The above record is furnished through the courtesy of C. M. Burton.

THE

Fifty-Eighth Annual Report

OF THE

Board of Education

OF THE

City of Detroit



FOR THE YEAR ENDING JUNE THIRTIETH NINETEEN HUNDRED AND ONE



BOARD OF EDUCATION

OF THE

CITY OF DETROIT

Offices, No. 50 Miami Ave.

OFFICERS FOR 1900-1901

RDWARD F. MARSCHNER,
CHRISTIAN AMMAN,
LEWIS H. CHAMBERLIN,
HENRY R. ANDREWS,
WALES C. MARTINDALE,
HORATIO BARR,
MALCOMSON & HIGGINBOTHAM,
FIELD & HINCHMAN,
Mechanical Engineers

MEMBERS OF THE BOARD

INSPECTORS	WARD	TERM EXPIRES
Marr, Maurice R		
Sherrill, Edwin S	Second	
Guenther, Peter	Third	**********
Newton, Lumus C		********
Love, Charles B	Fifth	*****
Price Orrin I	. Sixth	
Bourke, William A	Seventh	***
Smith Woman C	Triothth	•••
Lee William I	Ninth	June 20, 1001
Krchner, August Gentsch, William J Savory, William H	Tenth	
Gentsch, William I	Eleventh	** * * * * * * * * * * * * * * * * * * *
Savory, William H	Twelfth	**********
Henderson, Thomas	Thirteenth	
Amman, Christian	Pourteenth	
Marschner, Edward F	Fifteenth	
Ellis, Lucien E	Sixteenth	**********
Bennett, John F	Seventeenth	
William C. Maybury, Ex-officio.		
Alfred J. Murphy, Ex-officio.		

STANDING COMMITTEES

JUDICIARY

Inspectors Lee, Newton and Kirchner.

TEACHERS AND SCHOOLS

Inspectors Henderson, Amman, Bennett, Guenther and Kirchner.

TEXT BOOKS AND COURSE OF STUDY

Inspectors Bennett, Smith, Amman, Henderson and Savory.

FINANCE

Inspectors Marr, Smith and Price.

REAL ESTATE AND SCHOOL BUILDINGS

Inspectors Savory, Lee, Marr, Bourke and Guenther.

SUPPLIES AND JANITORS

Inspectors Price, Gentsch, Ellis, Love and Kirchner.

SANITATION

. Inspectors Ellis, Bourke and Newton.

RULES

Inspectors Gentsch, Sherrill and Love.

BOARD OF EDUCATION

OF THE

CITY OF DETROIT

Offices, No. 50 Miami Ave.

OFFICERS FOR 1901-1902

EDWARD F. MARSCHNER,
LOUIS GOLDBERG,
GEORGE BROWN,
HENRY R. ANDREWS,
WALES C. MARTINDALE,
WILLIAM H. SAVORY,
MALCOMSON & HIGGINBOTHAM,
FIELD & HINCHMAN,

Superintendent of Schools
Supervisor of Property
Architects
FIELD & HINCHMAN,

Consulting Engineers

MEMBERS OF THE BOARD

INSPECTORS	WARD	TERM EXPIRES
Marr, Maurice R	.First	Tune 30, 1903
Sherrill, Edwin S., M. D	.Second	
Guenther, Peter	.Third	*************
Newton, Lumus C., M. D		***************************************
Love, Charles E	.Fifth	"
Price, Orrin J	Sixth	"
Todenbier, John D	Seventh	
Smith Horace G	Rìothth	**
Lee. William I	Ninth	
Johnson, Gilbert P., M. D. Gentsch, William J Vergouw, John F. W	Tenth	
Gentsch, William J	Eleventh	44
Vergouw, John F. W	.Twelfth	
Hely, Albert.	Thirteenth	
Goldberg, Louis	. Fourteenth	*****
Marschner, Edward F	Fifteenth	46
Shivers, Joseph P	Sixteenth	
Bennett, John F., M. D	. Seventeenth .	44
William C. Maybury, Ex-officio. Alfred J. Murphy, Ex-officio.		

STANDING COMMITTEES

JUDICIARY

Inspectors Price, Love and Bennett.

TEACHERS AND SCHOOLS

Inspectors Goldberg, Guenther, Johnson, Lee and Shivers.

TEXT BOOKS AND COURSE OF STUDY

Inspectors Shivers, Marr, Vergouw, Guenther and Bennett.

FINANCE

Inspectors Marr, Smith and Newton.

REAL ESTATE AND SCHOOL SUILDINGS

Inspectors Lee, Marr, Todenbier Hely and Goldberg.

SUPPLIES AND JANITORS

Inspectors Vergouw, Price, Love, Goldberg and Hely.

SANITATION

Inspectors Johnson, Sherrill and Gentsch.

RULES

Inspectors Guenther, Newton and Sherrill.

PRESIDENT'S REPORT **



ED. F. MARSCHNER,
PRESIDENT BOARD OF EDUCATION.

PRESIDENT'S REPORT.

TO THE BOARD OF EDUCATION:

July 1, 1901.

Gentlemen:—It is with pleasure that I submit this, my annual report, to the Board of Education. In doing this I must, however, state that it is with some feeling of regret that I have to call your attention to the fact that there is a balance on hand in every fund, the total balances aggregating some \$5,000. It may sound strange to regret that the Board is able to show such a financial condition. My reason for doing so is that the reports necessarily fail to show that our estimates as submitted to the Common Council and Board of Estimates in which we asked an appropriation of \$56,000 for a probable deficit are not borne out by our financial statements at this particular time because of uncompleted work and consequent liabilities. By the end of the year we will not be in such good shape.

The new Eastern High, the Gillies and the Craft Schools are not completed and when we shall have made the final payments on these buildings we shall show a deficit in the building fund of the \$56,000 asked for. There is, after all, some cause for congratulation in this regard, not that there is going to be a deficit, but that our estimates will have proven to be correct.

Every department of municipal government thinks, of course, that its demands upon the taxpayers are fully justified and we may be charged with being conceited when we contend that our needs are paramount to those of any other department, but I insist nevertheless, that the edu-

cation of our future business and professional men, of the young people on whom the burden of prosperity and progress of this city will rest in coming years, is paramount to every other consideration. I do not favor extravagant estimates, but I do feel that in the past this Board has not been allowed as great a share of the annual budget as it was entitled to.

Every means should be used to keep the course of study and its interpretation upon a thoroughly practical basis, one which, while giving a maximum of culture work, will secure for the pupils who leave the public schools in the early part of the grammar grades, an exact and thorough knowledge of the so-called "conservative" studies.

No work in the public school course can take the place of Reading, in its many phases, as a means of acquiring future knowledge and development. No superficial knowledge can take the place of a rational training in habits of industry and habits of exactness, which assist in solving the future life problems of our boys and girls. During my term of office as President of the Board of Education, my earnest efforts have been for a rational and thoroughly practical and efficient upb miding of our school system. I believe the results in training and scholarship warrant the assumption that the high standing of our schools, comes from a progressive though conservative administration. In this connection, while commending the Text Book Committee upon its good work in refusing to purchase large quantities of school apparatus, which in a short time becomes useless junk, a warning note is necessary for the future. Good working libraries in all the public schools are a necessity and I would continue the policy of the Superintendent of Schools in recommending the purchase of such standard works as may

be deemed necessary for the use of teachers in their daily work; but would recommend the adoption permanently, of the policy now pursued, of purchasing only such apparatus as may be necessary for daily use in the demonstration of the usual school work.

I would give more attention to the physical condition of the pupils than is now given, for what will education avail if a sound body and a sound mind do not go together? You must remember that our children are living a more artificial life than we and our grandfathers did. The city is becoming so thickly populated that there is neither time nor opportunity for that fresh air exercise which was so easily secured a generation or two ago, when children engaged in pursuits which developed their bodies, while teachers developed their minds. Detroit is growing fast and the fresh air spaces are being rapidly crowded out. If we cannot give our children natural exercise for their bones and muscles we must do what we can for them artificially, in other words, we should extend our system of physical culture.

Allow me to call your attention to the large amount of labor performed so faithfully and gratuitously by the members of this Board. The various committees have done their duty carefully and conscientiously. Through the efforts of the Teachers' Committee and the Text Book Committee great advances have been made along educational lines despite many serious difficulties. Great credit is due the Committee on Real Estate and School Buildings for the new Eastern High, the Gillies and Craft Schools which are now in process of construction. They are modern and furnished with modern appliances in all lines of the building art and are monuments of which the Committee and the Board may well be proud.

I cannot refrain from mentioning the misfortune the Board had in the destruction, by fire, of the Craft School on September 12th, 1900. This entailed a loss amounting to \$40,000 upon this Board and was one of the primary causes of the large deficit in the Building Fund.

In conclusion, I thank the members for courtesies shown and the loyal support given me during my term of office.

Respectfully, EDWARD F. MARSCHNER.

SECRETARY'S REPORT & &

SECRETARY'S REPORT.

TO THE BOARD OF EDUCATION:

Oct. 1, 1901.

In compliance with the rules I hand you herewith my report for the fiscal year ending June 30, 1901. It shows in detail and in summaries the receipts and expenditures of the Board together with other information which you will find useful.

Total disbursements for the year were \$1,251,825.61, of which \$35,650.00 was for school sites, \$346,461.67 for buildings and permanent improvements and \$869,713.94 for maintenance. Not having assumed office until Aug. 9 1901, my report must necessarily be brief, as I was not an officer of the Board on July 1.

Respectfully submitted,
GEORGE BROWN.

CONSOLIDATED FINANCIAL REPORT.

RECEIPTS.

Balance July 1, 1900 (Maintenance and Secretary's Con-		
tingent Funds) \$	87,470	92
Sale of bonds	250,000	00
City taxes, 1900	813,270	61
Temporary loan	15,000	00
Interest on daily balances	9,260	83
Primary school money	168,846	70
Non-resident pupils	1,215	48
Fines in schools	188	87
Sale of books	81	83
Miscellaneous sources	3,416	58
Total	1,293,696	70

CONSOLIDATED FINANCIAL REPORT.

DISBURSEMENTS.

Overdraft July 1, 1900 (Building and Book of Reference		
Funds)\$	34,882	52
Interest on overdraft	1	04
Land, buildings and permanent improvements	382,111	67
Maintenance of schools	799,702	13
Night schools	4,666	61
Book department	20,826	76
Supplies department	14,910	69
General office expenses	2,040	10
Secretary's office expenses	6,472	09
Superintendent's office expenses	5,781	04
Supervisor's office expenses	3,183	79
Reference books, apparatus, etc	1,262	16
Bhops	6,873	58
Stable	805	55
Miscellaneous	8,688	45
Balances June 30, 1901 (Building, Maintenance, Book of		
Reference and Secretary's Contingent Funds)	6,988	57
•	1 293 696	70

\$ 1,293,696 70

FINANCIAL STATEMENT BY FUNDS.

BUILDING FUND-RECEIPTS.

Balance July 1, 1900	\$
Sale of bonds	250,000 00
Temporary loan	15,000 00
City taxes 1900	159,782 22
Interest on daily balances	
Miscellanous sources	576 54
	\$421,048 89
BUILDING FUND—DISBURSEMENTS.	
Overdraft July 1, 1900	\$ 84,727 83
Land, buildings and permanent improvements	382,111 67
Balance June 30, 1901	4,209 89
	\$421,048 89

MAINTENANCE FUND.

RECEIPTS.

TENORITE TO		
Balance July 1, 1900 \$ 3	7,220	92
City taxes 1900 66	0,588	39
Primary School money,	8,846	70
Interest on daily balances	6,518	87
Fines in schools	183	87
Sale of books and school supplies	81	82
Miscellaneous sources	2,570	77
Total	0,910	84
·	•	
DISBURSEMENTS.		
Teachers' salaries	8,291	89
Janitors' salaries 6	7,834	80
Fuel 3	4,871	13
Water	2,389	84
Light and motor current	1,849	01
Labor for repairs	5,0 86	29
Material for repairs 1	1,817	16
Furniture and fixtures	6,047	49
Telephone rent	34 8	89
Plano rent	1,651	50
Insurance	438	25
	0,792	17
	2,040	10
Secretary's office expenses	6,472	09
Superintendent's office expenses	5,781	04
Supervisor's office expenses	8,188	79
•	0,826	76
Supplies department including salaries 1	4,910	69
	6,878	
Stable, including teamster's salary	805	
	3,694	
Balance June 80, 1901	2,460	10
Total	0,910	84

REPORT OF THE SECRETARY.

20.

FINANCIAL STATEMENT BY FUNDS.

BOOK OF REFERENCE FUND-RECEIPTS.

Tuition of non-residents\$ Transfer from Maintenance Fund	269	
Total	1,487	47
BOOK OF REFERENCE FUND—DISBURSEMENTS.		
Overdraft July 1, 1900		
Interest on overdraft	1.262	04
Balance June 30, 1901	69	
Total \$	1,487	47

FINANCIAL STATEMENT BY FUNDS.

SECRETARY'S CONTINGENT FUND—RECEIPTS.		
Balance July 1, 1900 \$	250	00
Total\$	250	00
DISBURSEMENTS-NONE.		
Balance June 30, 1901 \$	250	00
Total \$	250	00

RECEIPTS IN DETAIL.

FROM CITY TAXES, PRIMARY SCHOOL MONEY AND INTEREST.

1900.	Sale of Bonds.	City Taxes 1900.	Primary School Money.	Interest on Daily Balances.	Total.
July	\$250,000 00	\$104,299 24		\$484 76	\$854,784 00
August		554,282 25		1,204 83	558,487 08
September		14,465 10		1,459 23	15,994 88
October		17,910 99		1,880]02	19,241 01
November		9,905 11	\$181,415 90	1,095 36	142,416 87
December		9,512 3 5		1,054 48	10,566 88
1901					
January		9,848 06		954 70	10,297 76
February		5,084 29		687 88	5,721 67
March		5,701 86		498 96	6,200 82
April		15,782 88		287 67	16,020 05
Мау		10,812 85	82,480 80	155 99	48,899 64
June		58,221 68		147 45	58,369 08
Total.	\$250,000 00	\$818,270 61	\$168,846 70	\$9,260 88	\$1,286,878 14

LAND, BUILDINGS AND PERMANENT IMPROVEMENTS.

School.	Land.	Buildings.	Furni- ture.	Paving and Sewers.	Grading and Sodding.	Total.
Alger		\$ 18 87				\$ 18 87
Barstow		28 81		. 		28 81
Bellevue	ļ	114 11	·•••.	. 	\$ 41 74	155 85
Berry		85 51				85 51
Bishop		5 96			· · · · · · · · · · · · · · · · · · ·	5 95
Brownson		8 87		 .		8 87
Campau		492 45		 .	18 50	505 95
Campbell		98 81				98 81
Cass		87 80	··· · · · · · · · · · · · · · · · · ·			87 80
Chaney	.	5 00				5,00
Clinton		42 85			. 	42 85
Columbian	.	265 50				265 50
Craft		88,159 48				88,159 48
Custer	.	81 50				81 50
Duffield		208 47				208 47
Estabrook	.			\$455 44		455 44
Fairbanks		887 87				887 87
Farrand	ļ	1 75				1 75
Ferry	.	28 65		· 		28 65
Pield		712 08		.	· • • • • • • • • • • • • • • • • • • •	712 08
Firnane	.	· 40 46				40 46
Franklin	.	402 80			78 89	476 6 9
Garfield				336 96		336 96
Gillies	. \$ 5,150 00	28,732 18				33,862 18
Gratiot				870 96		3 70 96
Hancock	.	84 80				84 80
Harris	.ļ	86 00				86 00
High, Central		2,586 28			••••	2,586 23
High, Rastern	. 25,000 00	174,718 16	.			199,718 16
High, Western		11,170 82				11,170 32
Houghton		102 48				102 48
Hubbard				l .	14 68	14 68

EXPENDITURES IN DETAIL—Continued.

LAND, BUILDINGS AND PERMANENT IMPROVEMENTS.

School.	Land.	Buildings	Furni- ture.	Paving and Sewers.	Grading and Sodding	Total
Jefferson		\$ 28 81				\$ 28 81
Johnston		41 44				41 44
Lincoln		556 16	 			556 16
L ys ter		51 74				51 74
McGraw		806 12	\$ 100 00			406 12
Newberry		988 97				988 97
Nichols		15 00	. 			15 00
Office Building		87 00				87 00
Parke	\$5,500 00	48,409 19	264 79			54,178 98
Pitcher	••••	26 81	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	26 81
Potter		18 00				18 00
Russell		81,494 24	1,422 59		\$18 61	82,930 44
Scripps		89 06				89 06
Таррап		780 80			41 88	772 18
Tilden		91 80				91 80
Van Dyke		492 66	· • • • • • • • • • • • • • • • • • • •	\$720 46	81 61	1,244 78
Washington		41 81				41 81
Webster		580 52				580 52
Wilkins		29 77				29 77
Total	\$85,650 00	\$842,560 11	\$1,787 88	\$1,888 82	\$280 86	\$382,111 67

NIGHT SCHOOLS.

SCHOOL.	Teachers' Salaries.	Janitors' Salaries.	Light.	Miscel- laneous.	Total.
Campbell	\$ 764 50	\$ 59 00	\$169 58		\$998 06
Everett	569 50	59 00			688 50
Newberry	271 50	49 50	7 10		828 10
Newsboys	175 00	29 50		*\$ 5 89	210 89
Norvell	618 00	59 00			672 00
Trowbridge	705 50	59 00	65 86		880 86
Webster	577 00	59 00	85 98		671 9
Wilkins	225 50	101 00	5 75		382 2
Total	\$8,901 50	\$475 00	\$234 22	\$5 89	\$4,660 6

^{*} Fuel.

REPORT OF THE SECRETARY.

EXPENDITURES IN DETAIL.
MAINTENANCE OF SCHOOLS.

		arics.			ie.	REPAIRS	IRS.	p	Rent				
SCHOOLS.	Teachers' Salaries.	la2 'eroilnal	Fuel.	Water.	and Motors.	Labor.	Material.	Purniture an Pixtures.	Telephone	Piano Rent	Jusurance.	Sundr les.	Total.
Alger	\$6,114 00	\$ 958 50	\$ 485 33	\$18 61		148 75	88 88	\$ 59 34	\$18 00	\$55 62		38	85 \$ 7,915
Атюв	8,568 50	1,030 00	607 05	8		155 04	32	184 28		25	-	2	25 10,744
Bagley	4,900 00	480 00	210 48	31 55	:	270 07	447 30	15 91		88 55		•	6,884
Barstow	8,205 00	00 ORL	368 01	3	\$67.95	200	% %	148 71	18 00	\$ 00		•	97.70
Bellefontaine	7,890 00	00 009	340 46	88 88	:	141 94	45 12	46 66	18 00	33 33		7	908'6
Bellevue	5,035 (0	00 088	448 04	88	:	100 94	81 20	52 45	:	8 8	27. 8±8	*	6,739
Ветту	8,499 50	00 مدر	470 17	8	:	# 3	38 85	128 58		23	-	28	10,128
Bishop	16,421 38	1,360 00	7.08 7.5	91 61	19.40	360 38	1,565 47	88	:	2 8		80	21,687
Brownson	5,925 CO	240 00	256 79	88 88		#	9 57	90 OR		15 75	:	•	6,887
Campau	8,728	1,045 00	489 47	38 91	2 80	106 64	88	88 45	18 00	45 10	:	8	10,580
Campau, M. T.	1,580 00	90	:	:		. :	:		:			296±	1,802
Campbell	00 08%,6	1,020 00	18 689	57 28	6 91	190 48	168 48	128 87	18 00	:	:	28	50 11,496
Ze 5	17,258 75	1,400 00	580 50	35 35		372 41	87.7 96	118 78	:	2	:	80	86 20,182
Chancy	10,530 00	720 00	796 16	5 78	33 53	457 97	845 64	22	18 00	33	:		. 18,517 11
Clay	6,325 00	240 00	841 10	50 98	81 68	418 58	356 47	85 57	:	:			8,949
Chaton	5,425 00	00 028	275 02	£ ₹	:	150 %	12 88	8 8		:	:	11 7	75 6,964

					1	Rei	POR	T)F	TH	E 8	EC	RE	'AF	Y.						27
10,757 86	98 886		1,702 50	7,260 58	16,898 31	788 84	10,960 47	10,684 70	11,595 97	11,640 41	9,647 91	11,027 94	5,768 06	11,968 00	7,875 08	æ	1,079 55	12,759 91	21,410 82	28.	8,048 54
**	93 80	:	88	88	88	*788 84	8		35 35	99 900	:	88	27 20	25	8	4 50	:	1 45	88	38.	8 10
:	3	:	8 8	:	:	:	:		:	:			:	55 25	:	3	:	:	:		:
23 88	•		:	3i 3i	:		88	92 93	98	\$ 90	18 50		:	67 30	3	:	:	81 50	8 8	:	11 76
	:					:		18 00	. :	18 00	:	9 00	:	18 50		:		:			
8	195 00		4 88	30 90	27.28		196 96	219 30	88 40	68 61	68 97	48 06	48 81	68 65	19 87	:	4 90	140 99	20		8
88	:		18 88	5 84	201 59		18 80	101 86	125 48	104 28	280 57	187 96	20 41	06 10	8		40 75	884 48	187 68	:	<u>%</u>
110 91	10 96		128 68	26 06	564 27		25	80 18	161 55	35	28	8	61 47	207 00	132 28	:	34 47	527 10	87 74	:	169 56
:	:	:		:	26		:		:	18 41		:		:	:	:		:	46 00		
18 48	:	:	28 6	10 74	48 30	:	88	8 8	25	88 88	11 88	18 77	17 77	88 18	48 21	:	6 73	88	86 75		<u>_</u> E
554 22	6 15		108 47	280 88	601 52	:	298 18	407 91	900 20	384 41	80 888	461 36	194	880	418 61		80 28	429 60	288 40	:	101 81
780 00	150 00	:	240 00	540 00	1,190 00	:	1,020 00	730 00	720 00	1,090 00	780 00	730 00	870 00	1,070 00	00 086		180 00	280 00	1,230 00		460 00
9,175 00	206 00	:	1,125 00	00 888'9	12,885 00		9,275 00	8,805 00	9,797 00	9,085 00	8,871 50	9,549 50	4,590 00	9,949 00	6,989 75	:	7.5 00	10,055 00	19,188 30		2,308 50
Columbian	Craft	Craft Annex	Custer	Dickinson	Duffield	Duffield M. T.	Kstabrook	Rverett	Fairbanks	Farrand	Репту	Field	Firnane	Franklin	Garfield	Gillies	Gratiot	Hancock	Haryle	Harris	Hippard

EXPENDITURES IN DETAIL.
MAINTENANCE OF SCHOOLS.

The control of the co			səļ.				REPAIRS.	IRS.		.3u				
2,257 % 6,288 % 1,084 % 6,24 173 173 17 22 7 59 18 66 15 75 15 75 15 75 15 75 15 75 15 75 15 75 15 75 15 75 17 22 17 22 18 66 18 66 15 75 17 22 17 22 18 66 18 66 15 75 17 22 17 22 18 66 18 66 17 22 17 22 18 66 18 66 17 22 17 22 18 66 18 66 18 75 17 22 17 22 18 66 18 66 18 75	s сноодs.	Teachers, Salaries.	Janitors' Salar	Fuel.	Water.	Light and Motors.	.roda,I	Material.	Furniture and Fixtures.	Lelephone Re	Plano Rent.	Insurance.	Sundries	Total
64,307 26 6,886 97 4,040 50 198 98 173 17 521 90 806 34 186 66	Hickey.	2 257 60					í			:			8	2,786 76
35,250 C0 1,030 00 317 49 57 86 16 30 399 11 4.8 46 81 94 18 00 67 50		64,307 26				178 17				:			808 18	77,494 98
30,250 16 3,825 50 1,574 54 139 50 226 40 898 88 210 67 200 14 24 89 22 50 87 50 9,250 70 1,020 00 317 49 57 88 15 30 56 79 48 65 22 76 18 00 87 50 5,980 00 540 00 226 49 16 30 56 78 107 10 130 98 18 00 34 50 6,150 00 540 00 226 49 16 30 22 11 3 43 21 15 22 76 22 50 14,025 00 1,130 00 650 08 38 61 16 65 16 65 16 65 22 50 22 50 4,841 00 220 0 226 64 20 50 116 48 36 03 47 27 22 50 22 50 6,150 00 220 00 226 64 20 50 116 48 36 03 47 27 44 72 44 75 6,150 00 220 00 24 54 27 86 27 86 27 86 27 86 27 86 27 86 27 86 27 86 27 86 27 86 27 86		:					 : :	:	:	:			1,945 70	1 945 73
9,250 C0 1,020 00 317 49 57 38 15 30 99 11 48 45 31 94 18 00 40 36 8,246 00 1,020 00 550 25 41 06 92 85 107 10 130 95 18 00 34 50 14,025 00 1,190 00 650 06 38 61 52 11 3 42 21 15 22 50 4,841 00 920 00 242 64 20 50 116 46 36 05 47 27 44 75 6,150 00 920 00 242 64 20 50 116 46 36 05 47 27 22 50 6,150 00 920 00 250 75 27 81 115 61 76 55 47 27 22 50 6,150 00 920 00 250 75 27 81 115 61 76 55 41 06 22 50 6,778 00 920 00 251 60 27 82 27 81 12 80 9 88 63 47 27 22 50 6,778 00 920 00 24 4 28 24 60 25 50 25 50 46 00 46 00 46 00 46 00 46 00	High, Western		8,828 50	1,574 54	123 50		98 98 98	210 67	200 14				28 55	88,508 72
9,250 C0 1,020 00 317 49 57 38 15 30 99 11 43 46 227 76 16 00 6,180 00 540 00 296 49 16 30 56 79 43 46 227 76 40 86 8,245 00 1,020 00 550 25 41 06 92 85 107 10 130 88 18 00 34 50 14,025 00 1,130 00 680 06 88 61 551 64 106 70 166 51 228 50 4,841 00 220 00 242 64 20 60 116 48 36 05 47 27 44 75 6,186 00 220 00 220 64 20 65 116 48 36 03 47 27 44 75 6,186 00 220 00 220 64 20 65 116 48 36 03 47 27 44 75 6,186 00 220 00 220 00 220 00 220 00 220 00 220 00 6,186 00 220 00 220 00 220 00 220 00 220 00 6,186 00 220 00 220 00 220 00 220 00 220 00 6,076 00 220 00 220 00 220 00 220 00 220 00 220 00	•	:		:		:	 : :		:	:	:	:	1,994 08	1,994 08
6,980 00 540 00 286 40 16 80 16 80 16 80 16 80 48 65 287 76 49 68 40 86 8,245 00 1,080 00 580 28 41 06 287 61 130 88 18 00 84 50 287 50 14,085 00 540 00 280 70 289 60 281 15 38 61 281 64 136 70 166 51 282 50 4,841 00 280 00 242 64 20 60 242 64 20 60 115 61 76 55 41 06 22 50 6,888 00 280 00 242 64 20 60 24 64 20 60 115 61 76 55 41 06 22 50 6,888 00 280 00 282 78 27 81 115 61 76 82 9 83 08 41 73 22 50 5,150 00 282 00 41 88 28 50 41 80 87 61 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60 48 60	Houghton	0) 058'6	1,020 00								:		18 60	10,866 30
8,245 00 1,080 00 580 28 41 08 92 85 107 10 130 88 18 00 84 50 6,150 00 540 00 280 70 28 60 28 61 28 61 28 63 47 11 3 42 21 15 22 50 14,085 00 1,190 00 690 08 88 61 116 48 36 08 47 77 22 50 6,886 00 220 00 220 64 20 50 116 48 36 08 47 77 22 50 6,888 00 280 00 28 7 81 115 61 76 88 9 88 1,10 00 22 50 5,150 00 280 00 414 88 36 24 36 54 36 50 41 06 22 50		5,980 00				:							8 78	6,990 59
6,150 00 540 00 580 00 289 00 42 11 8 42 21 15 22 50 14,085 00 1,190 00 680 06 88 61 251 64 186 70 166 51 28 50 4,841 00 920 00 242 64 20 50 115 48 36 03 47 37 44 75 6,886 00 920 00 242 67 27 81 115 61 76 55 41 06 22 50 5,150 00 920 00 381 74 19 70 74 82 9 83 86 60 46 00 48 60	Irving	8,245 00											8	10,218 71
14,085 00 1,190 00 680 06 88 61 35 64 106 70 166 51 28 60 4,841 00 820 00 242 64 20 50 116 48 36 03 47 27 44 73 6,886 00 820 00 242 64 20 50 115 61 76 55 41 06 22 50 6,886 00 820 00 831 74 19 70 74 82 9 83 83 08 46 00 48 50 6,078 00 896 00 414 83 85 24 286 43 82 00 87 65 46 00 48 60	ackson	6,150 00				:	42 11						:	7,088 48
4,841 00 920 00 242 64 20 60 27 81 116 48 36 03 47 27 44 75 6,888 00 930 00 296 78 27 81 115 61 76 56 41 06 22 50 5,150 00 200 00 351 74 19 70 74 89 9 88 38 08 36 50 6,078 00 896 00 414 88 38 524 366 43 399 00 67 06 46 00 48	Jefferson	14,085 00	1,190 00			:	281 64			:			8	16,883 89
6,886 00 990 00 296 78 27 81 115 61 76 55 41 06 22 50 5,150 00 980 00 881 74 19 70 74 82 9 83 33 08 23 50 5,078 00 995 00 414 93 38 54 366 43 82 00 67 65 46 00 43	ohnston					:				:			8	6,273 67
5,150 00 820 00 831 74 19 70 74 89 9 88 88 08 235 50 24 50 5,078 00 896 00 414 98 85 24 295 43 82 00 87 65 46 00 43	Cincoln	6,338 00					115 61					:	28 32	7,840 66
5,078 00 895 00 414 98 38 34 395 43 89 00 87 65 46 00 43		5,150 00				-				7		:	8	6,564 62
	McGraw	5,078 00	982 00	414 98	8 %	:	265 43	8 8	87 88	:	46 90	8 2	8	6,901 00
* Chicken M. T	McGraw M. T	:	•	- - - - - - -	:		:	÷		:	:	:	794 45	784 85
McKinstry 5 800 00 540 00 411 14 26 89 108 77 97 78 88 39 87 70 15 75	Ackinstry	8	240 00	411 14						:	15 75	:	:	7,065 38

					:	Re	POF	T (OF	TH	e s	SEC	RE'	ra i	RY.						29	•
11,198 49	18 14	6,117 84	\$1,116 92	474 00	28 81	2,543 04	7,887.28	7,827 09	1,771 40	12,064 07	7,612 54	4,671 46	6,888 05	6,597 16	6,473 66	11,287 10	10,884 87	18,813 89	18,068 91	2,081.20	699 15	
1.75	*12 14		8	224 18	:	28.78	8	:		စ ဧ	2 08		:	:	\$ 0\$	8	4 70	1 8	10 60	266 30	804 60	
			: :	:	:		:	:	43 75	:		:		: :								
23 31	:	90 OS	18 85		:	25	ন্ত প্র	:	5 75	23	88 25	15 75	31.85	15 75	15 75	98 80	61 75	23 28	27 50	:	17 60	
			:	:		:	•	:	4 50	18 00			:	:	18 00	4 50	18 00	:		:	:	
77 22	:	80 12	187 04	:	:	827 97	1 42	24 11	106 65	118 50	25 41	88	4	96 96	46 08	285 38	28	140 30	163 88		:	
&	:	28 28	460 80	15 10	:	146 18	3 5	25	7 78	471 65	41 75	10 84	25 51	88	%	197 77	15 04	88	3	:	10 58	
31 52	:	348 38	488 46	88	2 81	751 68	88	165 99	15 71	870 80	25	64 41	183 06	83 28	68 16	218 51	114 67	204 04	150 74	:	14 97	
64	:	:	:	:	:	88	:	:	:	7 49	:	:	8	:	:		:	8	35 41		_	
47 00	:	98 88	87 15	:	:	19 50	29 62	18 70		14 88	88	15 98	18 15	14 19	30 04	85 27	40 39	8	10 22	_: ::	_	
030	:	278 99	888 27	9	:	242 57	886 09	364 08	10 76	871 86	887 21	192 14	874 71	298 70	608 79	468 72	449 27	462 98	805 09	:	51 50	
86 86		210 00	1,290 00	187 50		00 008	920 00	240 00	00 OOK	1,020 00	00 088	480 00	540 00	240 00	937 50	937 50	1,018 00	1,130 00	1,130 00	96	900 00	
9,468 92		4,875 00	17,888 00	:			5,894 00	6,125 00	1,876 50	9,641 25	6,150 00	8,862 50	5,150 00	5,587 00	4,723 00	9,107 50	8,883 00	11,666 00	15,575 00	1,765 00	:	
Newberry	Newberry M. T	Nichols	Norvell	Norvell Annex	Oakland	Office Building	Owen	Palmer	Parke	Pitcher	Poe	Potter.	Preston	Roberts	Rose	Russell	Scrippa	Tappan	Lilden	Tilden M. T	Filden Annex	ogl

EXPENDITURES IN DETAIL. MAINTENANCE OF SCHOOLS.

		·F	_	_					a :	_			
Teachers		Talas 'stotina]	Fuel.	Water.	Light and Motors.	.roda.I	Material.	Furniture and Fixtures.	Telephone Re	Piano Rent.	.sonstusal	Sundries.	Total.
Trowbridge9,569	8 23	90 087	676 28	22.	1.88	148 63	35 40	155 60		23	:	:	11,867 17
Ungraded 2,400	8 0	240 00	115 71	6.73		18 18	1.88		:			655 65	8,733 04
:	28	00 000	19 980	8 2		178 26	क्षा ३	58 78		3	:		10,782 60
Washington 22,852	8	98 086	908	88	8 8	57 138 100	408 37	203 46	18 00	25		26 98	25,886 10
Webster 18,975	8	215 00	740 85	41 19	8 5	28 24	20 88	55 75	:	23		88	16,830 94
Wilkins 5.275	8	98 389	451 71	88		870 28	26 28	30 10	18 00		:	8 67	6,818 97
Williams	88 88	96	672 46	88	:	8	\$	141 58	18 00	25 28	:	8	11,794 38
Supervisor of Writing 1,500	: 8	- <u>:</u> :	:		:	:	•		:		:	•	1,500 00
Supervisor of Drawing 1,400	8 8		:			:		:	:	:	:	:	1,400 00
Assistant " 550	8 9	:	•	:	:	:	•	:	:		:		260 00
Supervisor of Music 1,400	8 8	- : :						:			:	:	1,400 00
Supervisor Phys. Culture. 1,200	90 00	:	:			:	:	:	:	:	:	:	1,900 00
upervisor of Man. Train 1,500	8		:			:					:	:	1,500 00
Seaf School4,150	8	185 00	:			:	:	46 28	:	81 00	:	981 90	4,694 06
Acraft Annex5,607	27 75	88	847 67			286 16	115 66	18 00		8	. :	997 50	7,979 81
Total \$ 649,880	88	806,859 80	\$84,871 18	\$ 8,380 B4	\$ 1,064 79	\$15,036	20 \$11,817 16	8 6.047 49	\$348 80	\$1,061 50	\$ 458 95	\$10,798 17\$	\$ 799,708 18

GENERAL OFFICE EXPENSES.

CHARACTO OFFICE DATAMORE.			
Advertising	\$	809	88
Prioting Journal	Ī	611	54
Printing Annual Report		418	65
Printing Manual of the Board		178	99
Postage, telegrams and messenger service		171	28
Car tickets		161	00
Stationery		188	76
Total	\$	2,040	10
SECRETARY'S OFFICE EXPENSES.			
	:	E PER	ω.
Secretary's and Clerks' salaries		645	
Stationery, printing and postage		20	_
Furniture and fixtures		51	
Telephone			
Total	\$	6,472	09
SUPERINTENDENT'S OFFICE EXPENSES.			
Superintendent's and Clerks' salaries	\$	5,825	96
Stationery and postage		358	08
Furniture and fixtures		56	00
Telephone		46	00
Total	\$	5,781	04
SUPERVISOR'S OFFICE EXPENSES.			
Supervisor's and Clerk's salaries	\$	3,038	84
Stationery and printing		88	
Furniture and fixtures		28	00
Telephone		89	50
Total.	•	8.188	79
	•	-,0	

BOOK DEPARTMENT.

BOOK DEFARIRANT.		
Clerk's salary	\$ 900	00
Text books		92
Repairing books	1,167	32
Re-binding books	1,310	6 8
Freight and cartage on books	35	84
Total	\$20,826	76
SUPPLIES DEPARTMENT.		
Clerk's salary	\$ 720	00
Janitor's supplies	2,082	40
School supplies		91
Kindergarten supplies		09
Manual Training supplies (in part)	8,119	74
General supplies and tools		55
Total	\$14 910	69
внорв.		
Rent of store room	8 600	00
Labor	2,798	00
Lumber, lime and cement	459	85
Painters' supplies		25
Hardware and fittings		17
Rubber matting	439	97
Castings	424	78
Cartage	79	75
Water	7	76
Miscellaneous	6	00
Total	8 6 373	53

ST		

STABLE.			
Teamster's salary	8	600	00
Rent	-		00
Horseshoeing		36	90
Feed		88	35
Fuel		10	8ú
Repairs to harness and wagon		26	00
Total	\$	805	55
MISCELLANEOUS.			
Census enumeration and books	\$	2,412	48
Bond premiums		121	50
Expenses, Dewey celebration		265	08
Expenses, N. E. A. convention		253	20
Telephone, President of the Board		24	39 .
Back salary, Geo. T. Erskine		39	00
Freight and cartage		85	36
Sundries		537	49
Total	\$	3,688	45
REFERENCE BOOKS, APPARATUS, ETC.			
Craft	8	3	20
Harris	-	255	41
High, Central		262	29
High, Western		203	86
Newberry		8	20
Parke		24	95
Russell		20	50
School for the Deaf		20	50
Tilden		16	74
Washington Normal		173	88
Book Room		278	18
Total	\$	1,262	16

TAND DE	SCR	IPT	ION OF BUILD	LIST AND DESCRIPTION OF BUILDINGS AND VALUATION OF REAL ESTATE AND BUILDINGS	LU	AT	NO O	OF RI	EAL EST	FATE AI	ND BUIL	DINGS
NAME	bısW	When Brected	Material	Kind of Roof	No. of Stories	No. of Rooms	Seating Capacity	Ноч	How Heated	Value of Site, 1896	Cost of Building	fatoT
Alger	-	98	Brick	Metal and Slate	65	22	표	Steam Fans.	'ans	\$ 4,400	\$ 84,500	\$ 38,900
Атов	=	1865	Brick	Slate	01	23	8	Steam Fans.	Pans	2,000	88,150	48,150
Bagley	2	188	Brick	Shingle	99	•	8	Smead	Smead Furnaces	3,700	15,900	19,600
Barstow	~	1870	Brick	Shingle	•	23	38	Smead	Smead Furnaces	8,580	30,000	38,580
Bellefontaine		1887	Brick	Shingle	01	2	28	Smead 1	Smead Furnaces	4,250	922,000	29,260
Bellevue	===	1800	Brick	Metal and Slate	93	90	2	Steam 1	Steam Fans	900	81.550	36,550
Berry	<u>-</u>	1808	Brick	Metal and Slate	31	22	619	Smead	Smead Furnaces	6,150	38,500	98,650
Bishop		1868	Brick	Metal and Slate	•	র	171	Steam Fans.	Pans	11,800	99,300	67,500
Вгоwпьов.	 -	1867	Brick f	Metal and Slate	99	•	28	Smead	Smead Furnaces	000'9	. 7400	27,400
Campau	=	1808	Brick	Metal and Slate	(PR	*2	ž	Steam Fans	Pans	2,000	84,000	39,000
Campbell	•	180	Brick.	Slate	œ	93	962	Steam F	Steam Fans	2,800	90,000	36,300
Case		1861	Brick	Metal and Shingle	80	31	8	Steam 1	Steam Fans	92,000	45,086	162,085

REPORT	OF THE	SECRETARY.

Chaney	138		Brick	Metal and Slate	64	18	\$	Smead Furnaces	3.000	88,000	98,000
•		1883						Ind'ple Furnaces)			
Clay	જ	1888	Brick	Metal and Slate	œ	∞	204	Smead Furnaces	10,000	25,250	38,250
Clinton	20	1870 }	Brick	Shingle	31	o o	츓	Steam Fans	5,840	18,000	28.840
Columbian.	4	1886	Brick	Metal and Slate	OS.	21	38	Smead Furnaces	3,400	32,000	35,200
Craft	7	1901	Brick	Slate	98	12	25	Steam Fans	8,660	45,000	48,550
Custer	91	1886	Frame	Shingle	œ	93	8	90 Thatcher Furn's	1,000	3,000	4,000
Dickingon	∞	988	Brick	Metal and Slate	24	œ	3	842 Smead Furnaces	4,500	25,750	80 250
Duffield	=	1866 1892	Brick	Metal and Slate	•	8	848	Steam Fans	15,500	98,860	71,850
Estabrook	91	1896	Brick	Metal and Slate	%	.23	8	Steam Fans	6,700	29,500	35,200
Rverett	10	1873	Brick	Shingle	•	22	848	Smead Furnaces	6,000	92,000	81,000
Fairbanks	4	180	Brick	Slate	ON.	2	25	Fuller Furnaces	4,590	30,400	84,990
Farrand	-	1888	Brick	Shingle	65	52	240	Steam Fans	5,700	35,860	41,060
Ferry	=	<u>8888</u>	Brick	Shingle	01	<u> </u>	576	Smead Furnaces)	6,000	98,000	. 000,88
Pield	5	1867	Brick	Slate	24	22	8	Smead Furnaces Peck Furnaces }	7,500	34,300	41,800

LIST AND DESCRIPTION OF BUILDINGS AND VALUATION OF REAL ESTATE AND BUILDINGS

CONTINUED.

NAMR	bısW	When Rrected	Material	Kind of Roof	No. of Stories	No. of Rooms	Sealing Capacity H A H H H H H H H H H H H	Value of Site, 1898	Zaibliug lo isoO	[ajoT
Firnane	=	38	Frame	Shingle,	OR.	8	812 Steam Fans	\$ 3,950	\$ 12,000	\$ 15,960
Franklip	9	1800	Brick	Metal and Slate	ON.	<u>*</u>	662 Steam Fans	00,700	53,875	64.575
Garffeld		1868	Brick	Metal and Slate	œ	oc oc	876 Steam Fans	6,300	22,100	\$8,400
Gillies	16	1901	Brick	Metal and Slate	01	15	850 Steam Fans	5,150	48,000	47,150
Gratiot		1968	Brick	Shingle	_	_	42 Stoves	1,500	1,500	8,000
Hancock	<u> </u>	1887	Brick	Metal and Slate	69		585 Smead Furnaces	7. 800	30,000	87,500
Harris	18	96	Brick	Metal and Slate	25	# #	471 Steam Fans	5,940	41,700	47,640
Hibbard	- 12	15.55	Frame	Shingle	≈	-	80 Stoves	2,400	2,500	5,300
Hickey	<u> </u>	18.53 18.67 18.67	Frame.	Shingle	O.	*	136 Thatcher Furn'es	1,600	4,000	5,600
High, Central	~	908	Brick	Tile	8	61 15	1584 Steam Fans	130,350	446,750	577,100
High, Eastern		180	Brick	Metal and Slate	8	表 요	680 Steam Fans	25,000	210,000	236,000
High, Western	7	9889	Brick	Metal and Slate	•		600 Steam Fans	8,000	184,000	302,000

7,500 30,000 27,500	5,000 22,000 27,000	18,750 85,000 58,750	15,000 18,000 88,000	000'69 000'09 008'6	8,000 21,250 24,250	7,250 24,000 81,250	1,650 28,400 24,050	4,900 45,000 49,900	8,000 12,000 15,000	4,000 80,800 84,800	7,710 10,000 17,710	5,780 50,700 56,460	1,000 1,000	
Steam Fans	Smead Furnaces 5,	Steam Fans 18	Smead Furnaces 15	890 Smead Furnaces 9,	Steam Fans 8	Steam Fans 7,	Steam Fans 1,	Steam Fans 4	Smead Furnaces 8	Smead Furnacea 4	Smead Furnaces	Steam Fans 5		
96 25	418	153	8	8	2	3	6	8	2	88	ž	96	:	_
21	œ	12	œ	81	90	90	30	23	œ	52	9	31		
60	O.	25	24	60	35	34	ઋ	35	01	CS.	35	G\$:	
Shingle	Metal and Slate	Shingle	Metal and Slate	Metal and Slate	Shingle	Shingle	Metal and Slate	Metal and Slate	Shingle	Metal and Slate	Shingle	Metal and Slate		
Brick	Brick	Brick	Brick	Brick	Brick	Brick	Brick	Brick	Frame.	Brick	Frame	Brick		
188 188 188 188 188 188 188 188 188 188	1887	1888	1801	1871	1886	1886	1806	1800	1886 1880 1880	1887 1880	1888 1888 1888	85.28 188.28		
•	22	03	=	4	۰	•	16	22	9	16	\$	==	:	
-	Hubbard	:	:		Johnston	Lincoln	Lyster	McGraw	McKinstry	Newberry	Nichols	Norwell	Onkland site	

LIST AND DESCRIPTION OF BUILDINGS AND VALUATION OF REAL ESTATE AND BUILDINGS

CONTINUED.	Mo. of Stories No. of Stories No. of Stories Seating Capacity Seating Capacity Yalue of Site, 1866 Cost of Building	Metal and Slate 2 12 600 Steam Fans \$ 6,800 \$389,900 \$44,500	Metal and Slate 2 14 700 Smead Furnaces 8,500 88,000 46,500	Metal and Slate 2 15 650 Steam Pans 5,500 42,000 47,500	Shingle 8 12 541 Steam Faus 4,000 80 000 34,000	Metal and Slate 2 8 884 Steam Fans 4,080 22,850 26,930	Metal and Slate 2 6 309 Smead Furnaces 8,000 18,000 21,000	Tile 8 8 808 Smead Furnaces 7,600 28,750 30,850	Metal and Slate 2 8 302 Smead Furnaces 5,000 25,000 80,000	Metal and Slate 2 12 570 Steam Fans 6,000 33,300 39,300	Metal and Slate 2 16 750 Steam Fans Leased 53,000 53,000	Metal and Slate 8 18 574 Steam Fans 7,900 88,600 40,800
	Нот Нев		Smead Furn	Steam Fans							Steam Fans	Steam Fans
	Seating Capacity					8	8	28	%	22		
<u>.</u>		·										
0 0	No. of Stories											
CONT	Kind of Roof	Metal and Slate	Metal and Slate	Metal and Slate	Shingle	Metal and Slate	Metal and Slate	Tile	Metal and Slate.	Metal and Slate	Metal and Slate	Metal and Slate
	Material	Brick		Brick							ų	
	K	Brick.	Brick.	Brick	Brick.	Brick	Brick	Brick	Brick.	Brick	Brick	Brick
	When Brected	1879 Brick.	1890 Brick.	1900 Brick	1871 Brick	1896 Brici	1889 Bric	38	1890 Bric	1807 Bric	1847) Bric	1898 Bri
						_						

T.	2	1868	To La	Shingle	•	- -		Comment of the commen	-	-	\$
	0	1886	43.19	Metal and Slate	•		2	Steam Falls	3	nn'nc	96.30
Tilden	9	1897	Brick	Brick Metal and Slate	63	Œ	88	858 Steam Fans	5,180	48,485	48,605
frowbridge	80	1880	Brick	Metal and Slate	OX.	83	900	598 Smead Furnaces.	11,400	90,000	41.400
Van Dyke	5	3 E	Brick	Brick Metal and Slate	œ	35	\$	Steam Fans	5,630	30,450	96,080
Washington	-	187	Brick Shingle Brick	Shingle	•	X	8	Smead Furnaces Fuller Furnaces.	8,780	46,000	780
Webster	22	1874	Brick	Shingle	ON.	2	8	Steam Fans	9,000	45,100	51,100
Wilkins	4	1870 J	Brick	Metal and Slate	•	8	96	499 Smead Furnaces	008'2	92,000	38,300
Williams 18	81	1800	Brick	Brick Metal and Slate	93	21		662 Smead Furnaces	4,900	84,150	99,060

Total seating capacity, 38,915. Total value of school sites, \$648,370. Total cost of school buildings, \$2,913,395. Aggregate, \$8,561,765.

†Not completed.
Whole number of school buildings, 70; Brick, 64; Frame, 6
Office building, Brick, 1.
Total number of school rooms, 994.

BUILDINGS LEASED FOR SCHOOL PURPOSES.

NAME OF SCHOOL	No. of Rooms	No. of Seating Rooms Capacity	Leased From	Lease Expires	Annual Rental
Tilden Annex	-	86	City and Suburban Homes Co.	June 80, 1908	00 008\$
Ungraded No. 1	4	28	Arion Singing Society	Jan. 20, 1908	00 009

LIST AND DESCRIPTION OF REAL ESTATE.

Name of School.	Location.	Dimensions.	Description.	Date of Purchase.	Deed Recorded.	Cost of Site.
Alger	Alger N Mott, near Woodward 200x190	200x190	Lot 36, 37 Mott's sub. of part of south 40 acres of 14 sec. 37 of 10,000 acre- tract	Jan. 14, 1898	L, E04, p 102	00 1 + *
Атов	S E Military and Regular	222×140	AmosSE Military and Regular 222x140	June 28, 1894	L, 814. p 49H	9,000
Bagley	N E 14th ave. and Pine	82×145.	N E 14th ave. and Pine [83x145 Lots 70, 71 Godfroy farm, p. c. 736	Feb. 24, 1888	L, 234, p 587	2,100
Barstow	N Larned, near Riopelle	100x130x81.84	N Larned, near Riopelle 100x130x81.84 Lots 68, 69, 70 and part lot 71, Riopelle (May 14, 1849 farm, p. c. 13	May 14, 1849 April I, 1866	L 85. p 582 L 122, p 886	3.600
Bellefontaine.	Bellefontaine. W Morrell, near Fort	250×149.5	Lots 8, 9, 10, 11. 12, sub. lot 10, p. c. 30.	Sept. 8. 1886	L. 301, p 157	Annexed
Bellevue	E Bellevue, near Champlain 300x158.27	:	Lots 44, 45, 46, 47 and 48 Hopson's sub. of the s.w. K of the n.e. K of p.c. 19	July 1, 1899	L 594, p 887 }	2,000
Berry	N W Concord and Charlevoix.	220.60x158.27	N W Concord and Charlevoix 220.09x159.27 Lots 45, 46, 47, 48, 49, 50, 51, 52, pt. 10t. 44 McLeod sub. p. c. 19	Dec. 4, 1891	I, 366, p 464	6,150
Bishop	Bishop N Winder, near Rivard 164x210	154x210	Part lot 188 Rivard farm Mar. 13, 1866 Wat farm	Mar. 12, 1856 July 12, 1870 Sept. 6, 1870	L 68, p 684 L 147, p 810 L 147, p 600	6,800
Brownson	S Maple, near Chene	150x105.28	Brownson S Maple, near Chene 150x105.28 Lots 83, 34, 35, 38, 87 of A. Crane's sec.	Sept. 29, 1887	L. 810, p 549 L. 817, p 278	6,550
Campau	N Forest, E Campau, W Mit-	222.40x152.88	Lots 7, 8, 9, 10, 11, 12, 18 and 14, and the southerly 15 ft. of lots 5 and 6 of L. V. Hanes'sub. 6 ft. 15 p. c. 609, Toseph Campau farm.	Tuly 6, 1898	1. 88. 83.	2,000
Campbell	N E St. Aubin and Alexan-drine	106.78x278.10	Campbell N E St. Aubin and Alexan. 106.73x273.10 One acre of n end lot 40, St. Aubin farm.	Dec. 20, 1872	L 178, p 808	0003
Class	Case E Grand River, W Second, S 889.86 x 800 x High	888.86 x 800 x 850.88	x 800 x 250.38 Block 76 Cass farm	-	L. 84, p 375	Donated

:	E Lawton, near Linden,	150x215.50	Chaney E Lawton, near Linden, 180z21b.50 Lots 43, 44, 45, 46, 47, McBride & Clark's sub. lot 6 p. c. 729	June 30, 1887	L 310, p 308) L 310, p 318 L 313, p 347)	6,800
	S Pitcher, near Cass	100x190	Clay S Pitcher, near Cass 100x190 Lots 10, 11, block 87, Cass farm	June 26, 1873	L 158, p 682	1,980
•	S Clinton, near Rivard	150x105.25	Clinton S Clinton, near Rivard 150x105,25 Lots w 15 96, 96, 97, e 15 98, Mullett farm	July 81, 1869 Nov. 5, 1875 Nov. 8, 1875 June 2, 1876	I, 140, p 212 I, 192, p 688 I, 192, p 688 I, 202, p 887	7,000
:	Columbian S R 77th and Merrick.	180.87±142.79	180.87z142.79 Lots 1, 2, 3, 4, 5, 6, Hubbard & Ding- wall's sub., tots 219 to 256 johnson's sub. Campeu farm, p. c. 78	Dec. 3, 1891	L 884, p 498	3,200
-:	N R Ash and Vinewood 166z148.27		Lots 20, 22, 24 Campau's sub. w.K., p.	June 21, 1886	L, 308, p 406	3 500
Custer	W Hammond, near Ranspach 90x150		Lots 81, 82, 83, Ranspach's sub. p. c. 574	July 27, 1886	L. 308, p 450	1,000
:	Dickinson N W 19th and Calumet 168x100	;	Lots 22, 28, 24, 25, 26, Wesson's sub. Thompson's farm, p. c. 287	July 21, 1866 July 2, 1869 Nov. 22, 1889	L. 349, p 610 L. 849, p 898 L. 849, p 416 }	8,550
Duffield	SClinton, N Macomb, nr. Chene 158x810x150		Lots 4, 5, 6, S Clinton; lots 4, 5, 6, N Macomb, Chene farm.	Aug. 5, 1868	L. 121, p 630) L. 146, p 73 L. 146, p 599)	2,776
	Estabrook N E 18th and McGraw 186.74x186.70.	•	Lots i. x, o, x, repose & retut s ab) lots, est. J. Mesmore; also lots 4 and 6, Fordyce & Nagle sub. E, side, 18th street	Aug. 11, 1888 July 12, 1907 May 39, 1901	I, 886, p 908] I, 886, p 915 I, 486, p 917 I, 486, p 991 I, 557, p 487	4,500
Rverett	S. Fort, near Rivard	100x188.88	100x188.88 Lots 41 and 42, Rivard farm	Sept. 30, 1948 Sept. 1, 1869 Sept. 18, 1878		4,170
Fairbanks	S E Seward and Hamilton B. 198x175	•	Lots 18, 14, 15, 16, Block 8, Beck's sub part of % sec. 55, 56, 10,000 acre tract	June 26, 1894	L. 489, p. 47	4,590
	S W Harper and John R	96.84x160. 40	Farrand S W Harper and John R 96.84x160. 40 Lots 15, 16, 17, Harper Hospital sub. of lot 8 and a. 110 ft. of lot 2, Park lot 45	May 1, 1888	L. 259. p 248	3 000

LIST AND DESCRIPTION OF REAL ESTATE—Continued.

Name of School	Location	Dimensions	Description	Date of Purchase	Deed Recorded	Cost of Site
Ferry	N E Ferry and Campau	988.40x150	Part block 68, Jos. Campau farm, p. c. 609.	Aug. 5, 1896	L 296, p.28	\$ 8,750
Field	N W Field and Agnes	150x180	N W Field and Agnes 150x180 Lots 104, 105, 106, Field's sub. p. c. 678	Aug. 25, 1887	L 283, p 280	4,000
Firnane	S Fort, near McDougall 79z188.88	79x188.88	Lots 16, 17, 18, Wendell's sub. blk. 6, April 6, 1871 McDougail farm, p. c. 9 and 454 Apr. 39, 1871	April 6, 1871 Apr. 30, 1871	L 158, p 179 { L 178, p 896 }	1,726
Franklin	Franklin W Brooklyn, S Pine, N Locust 948x190	i	The casterly 190 ft. of 10t 9, p. c. 94, (Aug. 36, 1864) Baker farm	Aug. 26, 1864 Feb. 6, 1866	L 111, p 88	6,700
Garfield	N R Rivard and Frederick	145.09x180	N. R. Rivard and Frederick 145.00x180 Lots 36, 87, 38, 39, 40, 41, Gunn's sub.	July 97, 1896	L 308, p 414	8,850
Gillies.	Gillies B Junction, near Fort 304.60x140		N ½ lot 6 and lots 7, 8, 9, 10 and 124.60 ft. lot 11 sub. lot 24 p. c 30	Nov. 14, 1900	L. 551, p 118 (5,180
Gratiot	N W Gratiot and Harper	207.50x165	Gratiot N W Gratiot and Harper 207.E0x185 N W cor. of back concession, p. c. 287 and 287	Feb. 17, 1869	L 187, p 827	Annexed
Hancock	N E Hancock and 14th	145x200	Lots 459, 460, 461, 468, 468 Godfrey farm p. c. 726	Oct. 27, 1868	I. 202, p 598	8,115
Harris	Harris S R Pulford and Ellery 380x108	200x106	Lots 1, 3, 8, 4, 5, 6, 7, bik. 4, Zender's sub. lots 16, 17, 18, Leib farm	April 8, 1898	L 481, p 514	5,940
Hibbard	W Hibbard, near Jefferson 130z130	180x180	Lots 18 and 14, Wesson's sub. lots \$ Oct. and 8, Cranc's sub, p. c. 644 and 728 Feb.	Oct. 9, 1886 Feb. 8, 1894	L 887, p 56 L 488, p 895 }	Annexed 800
Hickey	S E 30th and Herbert	160x156.85	S.E. 30th and Herbert 160x156.85 Lots 61, 62, 63, Crane's sub. of o. 1, 54, p. c. 30, Williams' farm	July, 80. 1897	L 406, p 19	1,600
High. Central,	High. Central. W Cass, N Hancock, S Warren 807.894569.80	867.88x569.80	Lots 1 to 24 inclusive, block 2, Cass Farm Co. sub. o. 1, 108, 105, 107, 109, sub Cass farm	Mar. 1, 1805	L 448, p 941	180,860

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8,000	1,480	& 26	2,100	13,000	2,900	2,810	9,800	Annex	4,900	1,650
25 25 25 25 25 25 25 25 25 25 25 25 25 2	P 307	p 245	D 3886	p 273	p 518	28	, p 118	, p 410	888 d.	I, 296, p 585
11111111 8888888	333	1, 309	1,	1, 360	L 141	1, 271	1, 180	1, 308	1 280	
5, 1807	1859	1887), 1868	3, 1890	3, 1869	1,1884	9,1878	9, 1886	0, 10,99	88
	Dec. 2 Mar. 1	May 5	July 10	Oct. 98	Oct. 18			July		Nov.
98 	42, I.a.	, except	b. Park			Dubois	10, Van arm		sub. of sub. of sub. of w's sub. of w's sub. town 2,	l, p. c. 30
b. of o. 1	3, block	ter farm	Villis su		E	olock 29 c. 91	1, block aubien f		f and G lock 8, v lot 28 of McGra sec. 2,	ub. lot &
ten's su ampau f	e% lot	t 45, Por	nd 27, v	nene far	rsyth fa	nd 15, 1 7% of p.	b. A. Be	% acre.	D, E, 1 15, of b y. Also nd 4, of of frac, age 11 ca	, 17, 18, s
8 J. B. C	and 2,	f Sk 10	135, 295 ts 61, 683	, 4, 5, C	ot 5, Fo	18, 14 a rm, S W	5, 6, 7, 8 yke's su	p. c. 574,	A, B, C, ts 11 to ted aller 12, 8 a. Dart outh, ran	14, 15, 16,
Lots 8	Lots 1	W.X.	Lots	Lots 8	Part 1	Lots fa	Lots D	Part 1	Lots 1	Lots 1
8x186	D	 84	1.10			88		r145	c188.78	McKinstry S W McKinstry and McMillan 150x140 I,ots 14, 15, 16, 17, 18, sub. lot 38, p. c. 30
189×36	186x18	180×16	150×15	150×19	178x90	84×105	98x088	136.683	247.880	150x14
; ;	:		rard		nwood	ois	ine	higan	third	fcMilla:
ar Bake	nd Sixt}	3aker	r Wood	Chene	nd Gree	ear Dul	nd Anto	near Mi	[wenty.	ry and 1
iten, ne	bbotta	, ncar I	lis, nea	t, near (elden a	erloo, n	3rady a	rnois, 1	ry and	c Kinst
E Scot	S W A	F, 254 h	N Wil			S Wat	N Z	E Live	z z	SWR
estern	=	: :		:		-	:	:		÷
13	0	.5	:	-	Ē	=	_	•	B	#
	estern E Scotten, near Baker	July 15, 1807 I, 488, p 568 1, 489, p 568 I, 489, p 568 I, 489, p 566 I, 489, p 566 I, 489, p 566 I, 489, p 664 I, 489, p 664 I, 57, p 507	July 15, 1897	July 16, 1897 1, 468, p.568 1, 448, p.568 1, 448, p.568 1, 448, p.566 1, 448, p.566 1, 448, p.566 1, 448, p.566 1, 76, p.507 1, 76, p.5	July 16, 1897	July 16, 1897	July 16, 1807 1, 488, p 5681 1, 448, p 5681 1, 448, p 5681 1, 448, p 5681 1, 448, p 568 1, 448, p 568 1, 448, p 568 1, 448, p 568 1, 76, p 507 3 1, 1867 1, 180, p 245 1, 180, p 246 1, 180, p 388 1, 120, p 388 1, 130, p 388 1, 130, p 388 1, 141, p 518 1,	July 15, 1897 1, 488, p 5881 1, 488, p 688 1, 488, p 689 1, 76, p 597 1, 389, p 245 1, 189, p 279 1, 189, p 271, p 28 1, 189, p 112 1, 1894 1, 271, p 28 1, 189, p 112	July 16, 1897 1, 488, p 5681 1, 448, p 5681 1, 76, p 507 3 1, 1859 1, 1867 1, 189, p 885 1, 189, p 118 1, 1894 1	July 15, 1897

REPORT OF THE SECRETARY.

LIST AND DESCRIPTION OF REAL ESTATE—Continued.

Name of School	Location	Dimensions	Description	Date of Purchase	Deed Recorded	Cost of Site
Newberry	W 20th, near Jackson	210x147.08	Newberry W 39th, near Jackson 210x147.48 Lots 48, 44, 45, 46, 47, 48, 49, Ham (Nov. 4, 1896 mond's sub. lot 51, p. c. 30 (Nov. 4, 1896	(Nov. 4, 1896 Nov. 15, 1999	I, 814, p 858 }	\$1.800
Nichols	S Elm, near Brooklyn	167x106.90x63.88	Nichols S. Elm, near Brooklyn 167x105.90x58.83 Lot 30, 21, 22, 28 sub. lots 13, 14, 15, 16, Baker farm	Feb. 15, 1888	L 249, p 48	Incl. Shop 8,500
Norvell	Norvell N Arndt, near McDougall 120x280.50	120x280.50	Lots 1, 2, 3, 4, blk. 43, Campau sub. McDougail farm, p. c. 9,454, also alley and lots 18, 18, 14, 16, as above	[July 19, 1876 Dec. 29, 1877	L 194, p 446 L 205, p 584	8,100
Oakland	N E Holbrook and Oakland	48.68x66	. N E Holbrook and Oakland 48.68x66 Part sec. 48, 10,000 acre tract	May 30, 1865	L, 117, p 292	Annexed
Office Building	Office Building E Miami, near Wilcox 86.30x100.	86.30≖100	Part lot 8 and lot 9, sec. 9, Gov. and July 23, 1844 Judge's plan	{ July 28, 1844 { May 2, 1887	I, 15, p 508-4 L, 809, p 218	008'9
Оwеп	N W Myrtle and 18th	210x114	Owen N W Myrtle and 18th 210z114 Lots 4, 5, 6, 7, 8, 9, 10, sub. lot 3, Laff-erty farm	Jan. 2, 1873	L 178, p 291	8,800
Palmer	N Horton, near Antoine	210x125	Palmer N Horton, near Antoine 210x126 Lots 129, 129, 130, 131, 133, 138, 13, 1 J Oct. 3, 1890 Baker's sub. lots 2, 1 sec. 57 May 29, 1900	Oct. 8, 1890	L 368, p 91, 92 L 562, p 54	6,900
Parke S	S W Bonlevard E and Milwaukeeave	:	Lots 81, 82, 89, 84, 85, 86, 87, 88, 89 and 90, Maybury's sub, lot 10, Theodore J. and Denis J. Campau. Plat. sub of tract. lot 89 and 88.	June 28, 1900	1, 548, p. 881 1, 548, p. 886	6,500
Pitcher ,	W Lawton, near Butternut	110x194	Pitcher, W Lawton, near Butternut 110x184 Lot 21, part 22, Johnson's sub. p. c.	July 12, 1870	L 146, p 108	1,500
Poe	S Lysander, near Sixth	100×128.50	Poe S Lysander, near Sixth 100x122.50 Lots 28, 24, block 44, Schultze's sub.	July 15, 1896	L 480, p 55	4 080

Tappan

Tilden.

LIST AND DESCRIPTION OF REAL ESTATE-Continued.

Cost of Site	\$5,575	8800'6		5,730	4,900
Deed Recorded	L 481, p 271 L 481, p 275 L 481, p 276 L 464, p 148	11 168 0 933 11 168 0 933 11 168 0 481 11 168 0 933 11 168 0 933 12 168 0 933	L 178, p 298 L 178, p 416 L 276, p 305	L 141, p 216 L 147, p 197	L 366, p 88
Date of Purchase	Jan. 14. 1898 Jan. 29, 1805	May 36, 1870 May 36, 1870 May 28, 1870 June 1, 1870 June 8, 1870 June 8, 1870 June 10, 1870	Dec. 18, 1872 June 15, 1874 Apr. 24, 1886	Aug. 16, 1899	Oct. 11, 1860 L 366, p 88
Description	Lots 13, 14, 15, 16, 30 ft. of 17, Courtney & Venable's sub. lots 10 and 65, Van Dyke farm, also lot 1 and part of lot 4. J. J. Shepherd's sub. of lots 64 to 76, Van Dyke farm, p. c. 100, 679	Lots 7 and 8 Cicotte's sub. lot 173, L. Beaublen farm	Lots 71, 74, 75, 78, 79, 89, 88, 86, Preston's sub. Godfrey farm, p. c. 729	Wilkins S Porter, near Second 100x180 Lots 4 and 5, block 46, Cass farm	Williams N Canfield, near Mt. Elliott 186.97x181.90 Part lot 21, Leib farm
Dimensions	896.50x165	1004218	240x130	100x180	186.97±181.90
Location	Van Dyke W Van Dyke, near Kercheval 220.00x105	W Beaublen, near Beacon 100x218.	E 21st, near Howard	S Porter, near Second	N Canfield, near Mt. Elliott
Name of School	Van Dyke	Washington Normal	Webster	Wilkins	Williams

SUPERINTENDENT'S

& REPORT & &

SUPERINTENDENT'S REPORT.

To the Honorable Board of Education:

Gentlemen:—I have the honor to submit the report of the Superintendent of Schools of the City of Detroit for the year ending June 30, 1901.

The total enrollment of different pupils for the year was 40,303, an increase of 1,153 over that of the previous year. The average daily attendance was 30,864, an increase of 1,463 for the current year.

HIGH SCHOOLS—HISTORICAL AND STATISTICAL.

Detroit's first high school was opened May 13th, 1844. The Board of Education did not have sole power of management. The Regents of the University appointed the teachers and selected the text-books used in the school. The old academy or first university building on Bates street near Larned street, was granted for high school use by the Regents of the University. The number of pupils was limited to twenty-five and only boys gained admission. The school from lack of patrons soon fell away.

In 1855 public sentiment favored a free public high school and an act of the legislature was passed that year authorizing the raising of funds for building and maintaining such an institution.

On February 20th, 1856, a committee was appointed by the Board of Education to prepare the way for a high school, and on April 30, 1858, the first session was held in the old primary school building on Miami avenue, which occupied the site of the present Board of Education offices.

The high school opened on the upper floor of the building and twenty-three pupils were in attendance the first day. Additions were made to the Miami building later; and in 1860 girls were granted the privilege of attending high school.

In 1863 the high school was removed to the old Capitol Building, which with several additions, formed the only high school for the entire city until it was destroyed by fire in 1893.

After the destruction of the old Central High School (Capitol Square) in 1893, steps were taken to rebuild. The present site of the Central High School, the block bounded by Cass, Hancock, Second and Warren avenues, was decided on after carefully canvassing the question of the future high school population of the city.

In September, 1895, by resolution of the Board of Education, an Eastern High School was opened in the Williams School and a Western High School in the Webster School. The Eastern High School was transferred, September, 1897, to the Harris School. September, 1901, will see the formal opening of the new Eastern High School, located at the intersection of the Boulevard and Mack avenue. The Western High School moved from the Webster School to the new building on Scotten avenue, opposite Clark Park, September, 1899, though the building was not completed until September, 1900.

To-day the combined enrollment of the Eastern and Western High Schools is only 132 less than the enrollment of the Central High in 1890. The enrollment of the Central High School in 1890 was 1,042; the combined

enrollment of the Eastern and Western High Schools is, for the present year, 910.

The public, except in a general way, does not appreciate the great growth in our population, and the largely increasing public school enrollment with its attending increase in high school students. This increase in high school enrollment is not peculiar to Detroit. William T. Harris, Commissioner of Education, a recent report says: "The increase in the number of high schools and in the number of students enrolled is something phenomenal. It would seem as if the people of all cities and villages had determined to provide high school accommodations for these children. More than this, there is a movement to furnish accommodations for all qualified children in country high schools where the population is too sparse and the wealth too small to provide town high schools." The advance sheets of the report of the Commissioner of Education for 1900 show an increase of 155.84 per cent. for the entire country since 1890. In the latter year there were enrolled in the public high schools of the country 202,963 students; in 1900 there were enrolled 519,251, an increase of 306,288, or in 1890 there were less than a quarter of a million students receiving public high school instruction, while in 1900 there were over a half million receiving public secondary instruction.

The number of high school students enrolled in the Detroit High Schools in 1890 was 1,042; the number enrolled in 1900 was 2,810, an increase of 1,768 in ten years.

The increase for the entire country from 1890 to 1900 was for all secondary schools 139.45 per cent., the increase in Detroit as just shown was 160.6 per cent., a very large increase over that of the country at large. The following conclusions are drawn: That Detroit has

a greater sentiment for secondary education than the country at large as shown by actual enrollment of students; that Detroit has a thorough appreciation of the needs of her schools as shown by the erection within a period of six years of three high schools with thorough modern equipment and accommodation for 3,500 students.

If the increase of attendance comprised the only index of increasing high school interest you should no doubt be proud of the showing; but to me the greatest showing lies in the increased per cent of graduates in 1900 above that of 1890. If you remember the increased per cent. of enrollment in 1900 over that of 1890 in the high schools of Detroit was 160.6 per cent., during which time the per cent. of those graduating from the Detroit High Schools had increased 180.6 per cent.

The increase in number of graduates comes, I believe, from several sources. First, the placing of high schools nearer the homes of those who wish to attend, by the erection of three buildings at the three centers of greatest high school population. Second, a demand on the part of business men for more thoroughly equipped students, our future men of affairs. Third, a more sympathetic interest in the individual needs of students and readjustments in work and requirements covering the demands of the general student body.

HIGH SCHOOL COURSE OF STUDY.

The latest changes in the course of study of the high schools were made at the beginning of the present school year. The number of hours for graduation was reduced from 167 to 142. A required course was provided containing seven (7) units and an elective course of eight (8) units as a complement of the seven required units fixed for graduation, making in all fifteen units. The interpre-

tation becomes quite easy through reference to the "Outlined Course."

A student wishing to prepare for college upon referring to the 9 B Course, under direction of the Grade Principal, would fill out his "course" for the semester with the required studies and then select or "elect" those necessary to complete his assignment of work for the semester—Latin, would, in all probability, be elected as the only complement of the required work. Should the student wish to pursue a commercial line of work, his program for the semester would include the required work for the semester and the elective "Bookkeeping" which would fill his number of hours for the first semester of the 9 B Class. In like manner, if the student wished to take a "modern language," the required work would be taken and the language "elected." The only requirement in regard to the "elected" studies is, that "students electing a study running through a year, must complete the year's work in that study before any credit is given."

No "courses" are recognized; each student takes the work desired to suit his particular case. The new plan worked most satisfactorily and caused but small effort to readjust previous courses to fit its requirements. The number of students in the traditional courses (Latin and Greek, which are now designated elective), stand about the same in number; indicating, that the popularity of these studies comes not through a forced sentiment in their favor, but from their apparent inherent value.

ADDITIONAL CREDITS.

As soon as the change can satisfactorily be made, I should recommend that students, taking accredited courses in music outside of their regular high school work, be given credit therefore in their regular high

school course. This may be a radical departure from former methods, but I believe that the time has come, when the welfare of the student body should be studied as well as the traditional dignity of high school courses. To the student carrying a course of music in addition to his high school work, failure in one or the other will surely come or, more than failure in academic knowledge, the breaking down of his physical strength. The number of cases reached would not be so large as might appear at first thought, though there are enough to warrant the planning of special credits.

NATIONAL EDUCATIONAL ASSOCIATION.

Preparations for the meeting of the National Educational Association (July 8th to 12th), 1901, have occupied a large part of the time of the teaching corps outside of their regular school duties. From present indications, every detail looking to the comfort and pleasure of our guests, will have been thoroughly worked out. The meeting will be one of the most important in character and numbers ever held by the Association. Its far reaching influence for good upon the Detroit teaching corps and upon our entire city will form a continuing force in the upbuilding of our schools.

READING.

During the present year continued stress has been placed upon "reading."

Part of the work of grade meetings has been an interpretation and amplification of the outlined course of study in Reading and Language, which requires a systematic teaching of the mechanics of reading throughout the grades. In the beginning primary grade the subject matter of the reading is of two general classes:

- I. Literature (reading).
- U. Topics of present interest.

A third division, pertaining to the mechanics of reading, is also considered. This takes up the work in phonetics and phonograms, with the resulting analytic synthetic processes required in reducing the to tence its elements. The reverse process of sentence building seldom, if ever, appearing analytic synthetic light, though encompassed by the union of words. The approach and end have been threefold. The mechanics of reading, the ability to husk thought silently and the ability to express orally in a proper manner the interpretation of the symbolic material presented, have been emphasized. necessity for a thorough understanding of phonetics in their bearing upon the subject; the necessity of a knowledge of phonograms, and the futility of approaching the work through diacritical markings, except as a means of interpreting reference books in the upper primary and grammar grades, are evident.

The ability to read fluently is one of the accomplishments for which we aim, though not the final one. The student's final aim should be the husking of thought, through individual application; the love for reading or studying depending upon individual ability to interpret the printed page. The last few years have seen vast improvement in the amount and class of reading material purchased for the schools. Care and discrimination have been exercised. Through their valuable advice and cooperation, principals and teachers have been of great assistance in determining the selection. The greatest improvement noted is in the late books on Animal Life

and Nature Study which show an increased insight, on the part of authors, into the real needs of the pupil; and the necessary means of bringing him into touch with nature, through leading him to see and to hear, and to feel and to generalize through his volition.

The individual initiative of pupils in the selection and use of books has received a tremendous impetus through the plan of co-operative use of selected lists of library books for direct circulation in the schools.

The plan as outlined is furnished by the Library Committee:

LIBRARY REPORT.

In making the report of the Committee on School Libraries, it becomes necessary to give a brief history of the growth of the library system in the public schools of this city from its inception to the present time.

Among the many advantages enjoyed by the pupils of our schools, there is one that is greatly appreciated, one that is of inestimable value in forming a taste for good literature among those who make up the rising generation. The advantage referred to arises from the cothe Public Library Commission the Board of Education in furnishing. the schools for the use of the pupils, a large number of carefully selected books-books of a high standard as regards both subject matter and form. These books are accessible at present to pupils of all grades above the third, and at the beginning of the present school year this privilege will be extended to the pupils of the third grade also. The plan has been a success from the beginning. started in 1887 when about 600 volumes were furnished to pupils of the High School. Two years later, the scope of the plan was enlarged and books were supplied to the

seventh and eighth grades of the grammar schools. Again, in 1892, the scheme was further extended, and fifth and sixth grade pupils were included in the distribution. In 1895 the pupils of the fourth grade were entitled to the privilege, and the present year will see the third grade enjoying this advantage.

Each extension of the plan has involved, of course, a large increase in the number of books, and the selection of such books as would be best suited to the needs and capacities of those for whom they are intended has been no easy task. The books for High School use have been selected by the principals of those schools. The selection of books for the grammar and primary grade pupils has been in the hands of a library committee of principals and teachers appointed by the superintendent. The number of books apportioned to the several grades is such that at present one book is furnished for every three pupils enrolled. Over 10,000 volumes are at present embraced in these school libraries. Of these the High Schools use almost 5,000 volumes; the seventh and eighth grades about 1,300; the fifth and sixth grades about 2,000 volumes, and the fourth grade about the same number.

The books in use in the High Schools have been selected with reference to the work of the school. They are chiefly works of reference, bearing on the work of the various classes in history, science, literature, etc., and are used for collateral reading and study in connection with the text-books.

The books selected for the pupils of the primary and grammar grades are of a miscellaneous character; fiction, travel, elementary science, biography, folk-lore and myth, and history being represented in the list of books. In the words of the librarian, Mr. Utley: "The books selected for these school circulating libraries are not

intended to be used in connection with school studies, though some of them may be and are so used. The intention was to choose good books which a child would be likely to read and enjoy, with a view to cultivating the habit of reading by putting into the hands of the child something outside of his school routine which would be attractive and profitable to him."

The books are furnished by the Library Commission. The Board of Education furnishes suitable boxes and transports the books in them from the library to the The Board also becomes responsible for the proper care and usage of the books, making good any loss or damage to them while under its charge. On receiving the books at school, the principals are charged with the responsibility of seeing that proper care is taken of them until they are called for. The books are distributed among the grades for which they are intended and issued to the pupils by the teachers in charge of those grades. The pupils are required to fill out library slips for the books received and when a book is returned, it is so marked on the slip. The exact circulation of the books is thus ascertained, and a record of the same is kept for each month.

At the end of eight weeks, the books are returned to the library and changed. Each school then receives a different lot of books and they are distributed as before. The books are thus changed five times during the year, thus ensuring variety in the reading material and keeping up the pupil's interest. Books recently published are from time to time added to the list and this also increases the interest and reading appetite of the average school boy or girl.

During the past school year the circulation of library books in school libraries, including the High Schools, reached a total of 98,325.

Requests are frequently received from parents of children in the lower grades asking to have certain books sent home that they may be read to the children who might not themselves be able to read them. Many a family has thus formed an acquaintance with public library books and been enabled to derive both pleasure and profit from the books brought home by the younger members of the family from school. Many, no doubt, have become regular patrons of the library through this method of making the schools branches of the Central Library.

During the past year it was found that a number of books in use in the public school libraries were worn out and it was deemed advisable in going over the lists that some of those which had been in use for a number of years be stricken off and replaced by newer works. In some instances this was done because the books, though irreproachable otherwise, were not attractive enough to young minds. In other cases, particularly in regard to books on geography, travel and science, fresh material in the way of later publications made a welcome change.

It was also recommended by the committee having this work in charge that several books at present on the list be gradually replaced by others as they become too worn for use.

It was found that a few of the books on the different grade lists were unsuited to the grades in which they were and were transferred to grades in which they would be more fully appreciated.

The following is a list of the books recommended by the Committee on Library Books for use in the public schools of Detroit.

> B. A. NOLAN, Chairman. KATHERINE B. WHITE, Secretary.

THIRD AND FOURTH GRADES.

ALCOTT, Eight Cousins.

Little Men.

" Rose in Bloom.

" Under the Lilacs.

ALDRICH, Story of a Bad Boy.

ANDERSEN, Fairy Tales.

BALDWIN, Fifty Famous Sto-

ries Retold.

BASS, Stories of Pioneer Life.

BAYLOR, Juan and Juanita.

BECKWITH, In Mythland.

BLAISDELL, Child Life.

BLANCHARD, A Dear Little

BOUVET, A Little House in Pimlico.

BROWN, Alice and Tom.

" Wonderful Chair.

OLARKE, Wee Lucy.

omitted, we bucy.

COOLIDGE, In the Story Land. ORAIK, Adventures of a

Brownie.

" Little Lame Prince.

DIAZ, Polly Cologne.

DODGSON, Alice in Wonderland

DOUGLAS, A Little Girl in Old Boston.

" A Little Girl in

Old New York.

DEFOE, Robinson Crusoe.

EGGLESTON, Great Americans, for Little Americans.

FLETCHER, Marjorie and Her Papa.

FOULKE, Braided Straws. GRIMM, Popular Tales.

HARRIS, Aaron.

Little Mr. Thimble-finger.

HUSTED, Stories of Indian Children.

JAMISON, Lady Jane.

JOHNSON, Little Colonel's

House Party.

JOHNSTONE, Two Little Knights of Kentucky.

KELLOGG, Stories from Arabian Nights.

McMURRY, Classic Stories for

Little Ones.
" Robinson Crusoe.

MILLER, Little Folks in Feathers and Furs.

MUNROE, Coral Ships.

OTIS, Toby Tyler.

PAGE, Two Little Confederates.

PLYMPTON, Betty, a Butterfly.

Dear Daughter Dorothy.

POULSON, Through the Farmyard Gate.

PRATT, America's Story for America's Children.

RICHARDS, Captain January.

Five Minute Stories.

Melody.

RICHARDSON, Eyes Right. RIGGS, Bird's Christmas Carol.

" Story Hour.

" Story of Patsy.

RUSKIN, King of the Golden River,

SCHWATKA, Children of the Cold.

SEGUR, Story of a Donkey. SNEDDIN, Doeas.

TRIMMER, History of the Robins.

WHITE, Ednah and Her Brothers.

When Molly Was Six.

FIFTH AND SIXTH GRADES.

ALCOTT, Jo's Boys.

Little Women.

" Spinning-Wheel Stories.

BALDWIN, Siegfried. BARNES, Midshipman Farra-

Yankee Ships and

Yankee Sailors. BROOKS, Boy of the First

Empire.
" Century Book.

" Master of the Stronghearts.

BURNETT, Little Lord Fauntlerov.

' Sara Crewe.

OHAMPNEY, Howling Wolf.

The Children of the World.

CLEMENS, Adventures of Tom Sawyer.

CRAIK, Fairy Book.

DODGE, Hans Brinker.

" Land of Pluck.

EWING, Jackanapes.

" Jan of the Windmill.

"Story of a Short Life.

HENTY, The Dragon and the Raven.

" Friends Though Divided.

" St. George for England.

" With Wolfe in Canada.

INGERSOLL, Ice Queen.
JACKSON, Nellie's Silver Mine.
KALER, With Perry on Lake
Erie.

With Warren at

" Bunker Hill.

KINGSTON, In the Wilds of Africa.

KIPLING, Captains Courageous.

"Jungle Book.

LILLIE, Jo's Opportunity.

LONG, Wilderness Ways. LOTHROP, Five Little Peppers.

MUNROE, At War With Pontiac.

" Derrick Sterling.

Painted Desert.

" The White Conqueror.

" Through Swamp and Glade.

OBER, Knockabout Club in the Antilles.

PYLE, Men of Iron.

" Robin Hood.

RICHARDS, Joyous Story of Toto.

RIGGS, Polly Oliver's Problem.

"Timothy's Quest.

SAUNDERS, Beautiful Joe. SEAWELL, Virginia Cavalier.

STICKNEY, Swiss Family Robinson.

STOCKTON, Fanciful Tales. STODDARD, Chris, the Model Maker.

STRATEMEYER, Under Dewey at Manila,

SWETT, Captain Polly.

TAPPAN, In the Days of Alfred the Great.

TOMLINSON, Tecumseh's Young Braves.

TOWLE, Drake the Sea King.

" Life of Raleigh.

TROWBRIDGE, Cudjo's Cave. WHITNEY, Faith Gartney's Girlhood.

Leslie Goldwaithe.

SEVENTH AND EIGHTH GRADES.

- ABBOTT, Life of Columbus.
 - " Life of Dan'l Boone.
 - ' Life of De Soto.
- AUSTIN, Standish of Standish.
 - Uncle Sam's Secrets.
 - " Uncle Sam's Soldiers,

BALDWIN, Story of Roland. BOLTON, Girls Who Became Famous.

BROOKS, Life of Abraham Lincoln.

" Son of the Revolution.

BROWN. Rab and His Friends. CHAPLIN, Life of Benjamin Franklin.

CLEMENS, Prince and Pauper COFFIN, Boys of '61.

- " Building the Nation.
- " Old Times in the Colonies.

COOPER, The Deerslayer.

- " The Pilot.
- " The Pioneers.
- " Afloat and Ashore.

CRAIK, John Halifax, Gentleman,

DICKENS, Nicholas Nickleby,

- ' Old Curiosity Shop,
- " Tale of Two Cities.

EGGLESTON, Hoosier Schoolmaster,

FISK, The War of Independence.

FROST, The Knights of the Round Table,

HALE, Life of Washington,

' Man without a Country.

HENTY, In the Reign of Terror,

- " With Lee in Virginia,
- " Young Carthaginians,

HIGGINSON, American Explorers,

HOLLAND, Arthur Bonnicastle,

HUGHES, Tom Brown's School Days,

INGERSOLL, Old Ocean, JACKSON, Ramona.

KNOX, Famous Boys.

MITCHELL, Hugh Wynne. SCOTT. Ivanhoe.

- Tales of a Grandfather,
- The Talisman.

STEVENSON, Treasure Island, STOCKTON, Rudder Grange, STOWE, Uncle Tom's Cabin, TOWLE, Life of Pizarro.

- " Marco Polo.
- " Vasco da Gama,

VERNE, Michael Strogoff,

- " The Mysterious
 Island.
- " Twenty thousand
 Leagues Under the
 Sea.

COURSE OF STUDY.

The general attitude of a teaching body to a course of study depends upon previous training and mode of thought. Teachers' methods of interpreting change from term to term. Old ideas are abandoned and new ideas taken on almost unconsciously. The teacher seldom realizes the change. Our methods of thought and progress might be compared to the invisible change noted in the stereopticon: the old vanishing; the new coming into view with no visible mode of transition.

Environment, methods of study, educational leadership, all have their effects upon the teacher; in fact the large opportunities for self-improvement offered in all directions at the present time and placed within easy reach of all, are encompassing vast changes in the whole social fabric.

While large scholarship and great depth of specific knowledge, on the part of a teacher, are of inestimable value, they may become through unpedagogical interpretation deterent factors. The pupil is entitled to the presentation of well digested material. The teacher in her interpretation of a course of study must select the salient points and direct the pupils in their study. A teacher as a never ending fountain of knowledge, is a grand concept; but if the pupil, in addition to his general receptiveness, has not learned to quarry and delve through his own initiative, his accomplishments are but neutral.

A course of study is hardly the bare bones of requirement. It awaits the breath of life furnished by the teacher. The teacher interprets according to his specific attainments and his amenability to expert educational leadership. The greater the teacher's specific attain-

ments, and the greater his amenability to expert educational leadership, the greater will be his power of individual initiative and leadership in the school room.

To a great extent our principals and teachers possess the above qualifications. Grade meetings, for this reason, are effective. The responsive attitude of the participants is not only a matter of my own observation, but comes reinforced by that of others competent to judge.

The greater part of the work of interpretation of our course of study is carried on through conferences of principals and teachers. These are meetings which precede and forecast the work done in the regular grade meetings of teachers. Through these conferences a large number of principals and teachers are kept in close touch with the office of the Superintendent and conversely, the Superintendent is kept in direct touch with the best thought of the entire school system. A more complete and uniform interpretation is thus obtained through a more complete meeting of the minds of all co-workers.

In conclusion, I beg to voice my recommendation of last year, that only such changes are advised as may appear necessary to produce more effective results and that simplification not amplification should be the general aim.

Respectfully,
W. C. MARTINDALE,
Superintendent.

COURSE OF STUDY IN THE DETROIT HIGH SCHOOLS.

9 B.	9.₩.	10 B.	10 A.	11 B.	11 A.	12 B.	13 A.
Емельн (1) 4 Алеквка (1) 5 Нівтову (1) 5	English (2) 4 Algebra (3) 5 History (2) 4	Емельн (8) 4	Емелян (4) 4 Агеевва (8) 5	English (5) 2 Geometry (1). 5	Емелян (6) 2 Свометну (2). 5	ENGLISH (7) 2 PHTGCS (1) 5	English (8), 2 Physics (2), 5
		Arithmetic (1). 5 History (3). 4	History (4)	Arithmetic (1). 5 Geometry (3). 4 History (5). 4 History (6). 4 History (7). 4	History (6)	Geometry (8). 254	Trigonometry (1) History (8) 4
Latin (1) 5 French (1) 5 German (1) 5	Latin (2) 5 French (2) 5 German (2) 5	Latin (3) 5 French (3) 5 German (3) 5	Latin (4) 5 French (4) 5 Ge man (4) 5 Greck (1) 5	Latin (5) 5 French (5) 6 German (5) 6 Greak (3) 6	Latin (6) 6 German (6) 5 German (6) 5 Greeck (8) 5 Greeck (8) 5 Greeck (8) 6	Latin (7) 5 French (7) 5 German (7) 5 Greek (4) 5	Algebra (4) 27, Latin (8) 5 French (8) 5 German (8) 5 Greek (5) 5
Geography (1). 4	Geography (1). 4 Geography (2). 4	Fotany (1) 5 Zučilogy (1) 5	Rotany (2) 5 Zočingy (2) 5 Physiology 5	French (1a) 6 Chemistry. (1) 5 Typewriting	8£ 8£	French (8a) . 5 Literature (1). 4	French (4a). 5 Literature (2) 4
Book-keeping (1).	Book keeping (2) 5	Book-keeping 5	Book beeping 5	Com Geog. or	(X) 256 Com. Law (5). 5 Economics (1). 5	Economics (1). 5	Reviews 5
Drawing (1) 2%	Phonography Phonography Phonography Phonography Drawing (1) 254 Drawing (3) 254 Drawing (4) 254 Drawing (4) 254 Drawing (4) 254 Drawing (5) 255 Drawing (6)	Phonography (1). Drawing (3) 3%	Phonography (2) 5 Drawing (4) 2½	Phonography 2% (3) 2%	Phonography Ph.nography (4) 814 (5)	Phrnography 2%	Phonography (6) 2X

The number of hours required for graduation is 142.

The subjects printed in small capitals, making a total of 67 hours, are required. From the optional studies 75 hours must be elected.

Students preparing for college should arrange their work so as to meet the requirements for admission.

that study.

Students electing a study running through a year must complete the year's work in that study before any credit is given. The number in parenthesis, following the name of each study, indicates the number of the course in that study. The number opposite the name of the study, at the right of the column, indicates the number of recitations per week, for

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ENROLLMENT, ATTENDANCE, ETC., IN EACH SCHOOL, JUNE, 1901.

schools.	Total Enrollment, including Dupil- cates on account of Transfers.	Average Membership.	Average Attendance.	Number of Teachers, June, 1901.
Alger	451	265	246	9
Amos	1 26 8	639	607	15
Bagley	497	258	244	7
Barstow	977	528	495	14
Bellefontaine	1014	580	553	13
Bellevue	529	32 8	313	8
Berry	1239	621	603	14
Bishop	2048	1021	934	24
Brownson	586	355	340	9
Campau	1118	583	551	19
Campbell	1092	537	506	14
Cass	1939	900	865	23
Chaney	1151	596	569	15
Clay	773	332	316	9
Clinton	827	377	350	9.
Columbian	829	468	44 6	14
Craft	758	402	378	11
Custer	95	69	64	2
Dickinson	660	356	337	9
Duffield	1537	812	779	19
Estabrook	962	527	503	15
Everett	941	476	450	13

ENROLLMENT, ATTENDANCE, ETC.. IN EACH SCHOOL —

ENROLLMENT, ATTENDANCE, ETC., IN EACH SCHOOL -

CONTINUED.

schools.	Total Enrollment, including Dupli- cates on account of Transfers.	Average Membership.	Average Attendance.	Number of Teachers, June, 1901.
Newberry	1293	567	524	16
Nichols	498	247	237	7
Norvell	2164	1062	1025	28
Owen	646	386	365	. 9
Palmer	789	366	344	9
Parke	392	76	72	5
Pitcher	951	533	510	14
Poe	593	327	312	10
Potter	567	284	267	6
Preston	607	343	322	9
Roberts	544	341	325	8
Rose	668	321	30 3	9
Russell	1215	470	441	15
Scripps	994	553	515	15
Tappan	1413	678	657	16
Tilden	1639	876	830	25
Trowbridge	1021	514	495	15
Ungraded	165	38	29	3
Van Dyke	1007	498	464	14
Washington-Normal	1509	7 2 6	682	26
Webster	1814	825	791	21
Wilkins	609	261	249	8

ENROLLMENT, ATTENDANCE, ETC., IN EACH SCHOOL - CONTINUED.

schools.	Total Enrollment, including dupli- cates on account of Transfers.	Average Membershp.	Average Attendance.	Number of Teachers, June, 1901.
Williams	1274	675	650	15
School for Deaf	42	29	27	5
Central High	1908	1499	1433	*62
Eastern High	320	244	235	*21
Western High	601	486	484	*28
Supervisors		********		5
Total	62015	32247	30614	932

The sum of the enrollment of all schools including transfers from one school to another or from one room to	
another in the same school is, as shown above	62015
Deduct on account of duplicate enrollments	21712
Actual number of different names enrolled in all the	
schools during the year	40303

^{*}Including clerks.

REPORT OF THE SUPERINTENDENT.

STATEMENT OF PROMOTIONS. (Half Yearly) For the School Year Ending June 1901.

GRAMMAR. PRIMARY. KINDERGARTEM
Whole No. of Per Cent. of Promotions. Average No. Belonging. Whole No. of Promotions. Per Cent. of Promotions.
163 97 84 234 74 159
458 75 304 503 75 335
417 81 258
391 75 262 392 74 286
343 88 196 457 60 384
519 79 328
446 96 232 713 92 389
449 62 361 924 70 660
77 88 44 478 77 311
180 81 111 1 648 78 413

				Ref	ORT	OF	THE	: St	PER	INT	END	ENT.	•			71
537	006	286	335	377	468	402	69	356	812	527	476	438	454	543	537	24
74	2 5	8	&	25	7	8	2	82	88	92	22	웛	88	77	73	18
795	1509	957	986	269	714	646	88	822	1399	288	188	721	752	88	787	385
<u>:</u>		:		:			:	32	:	88	:	83	প্ত	:	:	<u>:</u>
<u>:</u>		:	:	. :	:	:	:	8	<u>:</u>	£	:	22	8	<u>:</u>	<u>:</u>	_:
 		:		<u>:</u>	:	:	:	98		æ	:	14	æ	:		
438	372	804	244	377	334	333	8	277	385	277	283	506	203	416	282	244
72	*8	8	88	22	92	79	2	8	82	8	82	82	88	22	4	78
638	629	920	435	269	208	529	8 8	445	635	445	38	322	344	286	437	385
101	883	188	8 8	:	134	69	:	47	447	212	193	808	983	127	38	
78	88	82	88	:	11	%	:	28	88	75	79	98	88	83	69	
157	8 8	307	151	<u>:</u>	908	111		77	72	ଛ	808	386	375	252	320	: :
															Field	

STATEMENT OF PROMOTIONS-Continued. (Half Yearly) For the School Year Ending June 1901.

2	CHOOL.	NEPOR NO. Periodical Selection of agriculture.	T OF	13 324 HT	E S	19 243 143 19	*8 *8	95 95 98	25.	74 437	346	92 463	87 398	
	WROLE SCHOOL	Whole No. of Promotions.	824	476	33	825	12%	144	114 8	2 2 49	2762	862	989	_
	RTEM.	Average No. Belonging.	33	88	:	98		31	83	:	:	90	:	
	KINDERGARTER.	Per Cent. of Promotions.	£	æ	<u>:</u>	25	<u>:</u>	8	41	:	<u>:</u>	2	:	
Jume ayor.	Kon	Whole No. of Promotions	1%	<u>র</u>	<u>:</u>	ន	<u>:</u>	ន	22	<u>:</u>	:	11	:	
Smann a	Ė	Average No. Belonging.	307	3	ক	241	1 28	19	7.	88	345	186	88	
	PRIMARY.	Per Cent. of Promotions.	22	11	7	12	8	88	6	8	82	3	84	
100112	<u> </u>	Whole No. of Promotions.	514	8	37	372	128	124	8.	8	542	383	685	
200		Average No. Belonging.	211	귏	:	266	:	:	:	157	:	983	:	ě
	GRAKKAR	Per Cent. of Promotions.	22	\$	<u>:</u>	8	:	<u>:</u>	<u>:</u>	88	:	8	_:	į
(C	GB.	Whole No. of Fromotions.	35.	188		43	: :	<u>:</u>	:	83 83	: :	478	:	-
1700.00		8CBOOLS.	Franklin	Garfield	Gratiot	Hancock	Harris	Hibbard	Ніскеў	Houghton	Hubbard	Irving	Јасквоп	

				Ref	ORT	OF	THE	s St	PER	INT	END	ENT				73
368	315	286	243	\$	292	742	1062	386	366	92	533	327	***	343	341	321
17	72	12	92	11	7.	8	42	20	27	125	8	82	#	75	8	28
570	456	439	370	rg g	1 88	368	1675	602	528	180	848	539	438	516	546	486
	껋	:	8	:	:	:	33	. œ	:	9	:	68	:	:	:	
33	#	:	55			_ : -	4	33	:	:	:	33	:	:	:	
88	83	:	æ	:	:	:	61	23	:	<u>:</u>	:	22	:	:		:
333	88	987	146	381	357	230	869	297	386	2,2	380	EZZ	28	318	255	720
8	9.2	11	75	92	3 8	25	28	8	22	136	75	26	11	92	8	8
533	87.7	439	0 2 3 3	577	182	364	1107	502	528	180	437	412	436	482	412	401
:	:	:	67	ន	210	17	302	28	:	:	244	39	:	প্ত	\$ 8	11
:	:	:	81	90	3 5	8	ま	13	:	:	2 5	=	:	2	20	2
<u>:</u>	:	:	117	94	352	ន	507	55	:		411	100	:	4 5	134	8
JohnstonJohnston	Lincoln	Lyster	McGraw	McKinstry	Newberry	Nichols	Norvell	Оwen	Palmer	Parke	Pitcher	P06	Potter	Preston	Roberts	Вове

STATEMENT OF PROMOTIONS—Continued. (Half Yearly) For the School Year Ending June 1901.

	GRA	GRAMMAR.		<u>~</u>	PRIMARY.	¥.	KIND	KINDERGARTEN	LTEN.	WHOLE SCHOOL.	в Эсн	0 0 L.
SCHOOLS.	Whole No. of Promotions.	Per Cent. of Promotions.	Average No. Belonging.	Whole No. of Promotions.	Per Cent. of Promotions.	Average No. Belonging.	Whole No. of Promotions.	Per Cent. of Promotions,	Average No. Belonging.	Whole No. of Promotions.	Per Cent. of Promotions.	Average No. Belonging.
Russell	109	19	88	549	2.0	362	17	45	19	675	72	470
Scripps	179	26	118	547	27	385	70	99	53	798	75	553
Tappan	818	68	382	440	74	296		:	:	1118	82	878
Tilden	619	81	381	74	93	399	75	33	96	1438	82	876
Trowbridge	436	68	248	450	84	268		***	******	886	88	514
Van Dyke	301	11	195	478	7.9	303		:		4179	78	498
Washington-Normal	241	45	268	307	40	384	39	26	74	587	\$	728
Webster	793	85	469	597	25	356		:		1387	\$	825
Wilkins	£	93	ន	403	200	238		. :	******	446	88	261
Williams	88	83	235	899	76	440	:	:	*****	1056	82	675
School for Desf.	87	33	က	8	88	28		:	:	3	28	29
Total	15116	8	9338	30640	200	19748	268	43	988	46523	78	29980

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General School Statistics for the School Year Ending, June 22, 1901.

Population of City of Detroit	350,00	00
Valuation of property of city	\$247,248,500 (00
Amount of levy for current expenses of public	-	
•		17
Amount received from sale of bonds,	250,000	00
Amount appropriated for all school purposes,	1,068,270	61
Amount received from sale of school sites and		
buildings,	75	00
Per cent of school taxes upon entire municipal		
levy,	22.9	54
Amount of money received from primary school		
		70
Whole cost of superintendence and instruction	l.	
including Evening Schools,	658,840	72
Whole cost of incidentals, including all current		
school expenses except those named in No. 9)	
above,	209,610	02
		67
Average weeks of membership of each pupil en-	•	
rolled,		82
Average weeks of attendance of each pupil en-	•	
rolled,	80.	38
Average salary of all teachers, including principal,	,	
first assistant and supervisors,	707	54
•	•	
Per cent of promotion on average membership,	78.	00
	Valuation of property of city. Amount of levy for all municipal purposes, Amount of levy for current expenses of public schools, Amount received from sale of bonds, Amount appropriated for all school purposes, Amount received from sale of school sites and buildings, Per cent of school taxes upon entire municipal levy, Amount of money received from primary school fund, Whole cost of superintendence and instruction including Evening Schools, Whole cost of incidentals, including all current school expenses except those named in No. 9 above, Amount paid for sites and school buildings, Average weeks of membership of each pupil enrolled, Average salary of all teachers, including principal first assistant and supervisors, Average salary of all teachers, excluding principal, first assistant and supervisors, Total cost of tuition in Evening Schools, Total cost of tuition in Ungraded Schools,	Valuation of property of city

GENERAL SCHOOL STATISTICS FOR THE THREE DEPART-MENTS FOR THE YEAR ENDING JUNE, 1901.

	Kinder- garten.	Primary.	Grammar.	High.	Total and Average.
1. Number of different names enrolled	1789	25243	10824	2810	403 03
2. Average membership for the year	899	19812	9306	2230	32247
3. Average daily attendance for the year	799	18945	8968	2152	30864
4. Per cent. of attendance on membership	88.9	95.6	96.3	96.5	94.9
5. Number of pupils in mem- bership at close of year	1057	19252	9105	2161	31575
6. Number of male teachers7. Number of female teachers	48	6 443	24 300	3 <u>4</u> 77	64 868
8. Average number of teachers, excluding superintendent,					
supervisors, manual train- ing teachers, clerks and cadets	424	452	3021	104	901
9. 'Average number of teachers, including supervisors,	721	102		101	501
manual training teachers and clerks	424	454	3131	110	920
10. Average number of pupils to the teacher, excluding su-					
pervisors, based on en- rollment	42	56	36	27	45
the teacher, excluding su- pervisors, based on mem-					
bership		44	31	21	36
the teacher, excluding su- pervisors, based on attend-	19	42	30	21	. 34
13. Cost per capita for instruc- tion and superintendence,	19	42	30	21	34
excluding Ungraded and Evening Schools, based					
on average membership 14. Cost per capita for incident-	\$25 07	8 15 54	8 22 38	\$48 39	\$20 26
als, based on average membership	6 42	6 42	6 42	6 42	6 42
15. Cost per capita, including all current expenses ex-	0 12	0 42		0 42	0 12
cept money invested in school buildings	31 49	21 96	28 80	54 81	26 68
16. Cost per capita in Ungraded School		.			63 16
17. Number of days the schools were actually in session					187
į l					

REPORT OF THE SUPERINTENDENT.

LOCATION, NUMBER OF ROOMS, SEATING CAPACITY, AVERAGE ATTENDANCE, ETC., JUNE, 1901.

						_
schools.	LOCATION.	No. of Rooms.	No. of Seats.	Average Attendance for Year.	Average No. of Pupils to Teachers.	Average No. of Teachers for Year.
Alger	Mott, near Woodward	12	511	246	29	81
Amos	Military and Regular	12	583	607	40	15
Bagley	Fourteenth and Pine	6	306	244	35	7
Barstow	Larned, near Riopelle	12	537	495	38	13
Bellefontaine.	Morrell, near Fort	10	510	553	44	124
Bellevue	Bellevue, nr. Champlain	8	371	313	37	81
Berry	Concord and Charlevoix	12	657	603	42	144
Bishop	Winder and Rivard	22	1119	934	39	24
Brownson	Maple, near Chene	8	386	340	38	9
Campau	Forest and Campau	14	664	551	31	17+
Campbell	St. Aubin & Alexandrine	12	583	506	37	13‡
Cass	Grand River and Second	22	948	865	37	231
Chaney	Sullivan and Linden	12	606	569	38	15
Clay	Pitcher, near Cass	8	402	316	35	9
Clinton	Clinton, near Rivard	8	395	350	39	9
Columbian	Merrick and 27th	12	592	446	32	14
Craft	Vinewood and Ash	9	374	378	36	10¥
Custer	Hammond, nr. Ranspach	2	90	64	32	2
Dickinson	Twelfth and Calumet	8	384	3 37	35	91
Duffield	Clinton, near Chene	18	836	779	41	19
Estabrook	Eighteenth and McGraw.	12	583	503	32	154
Everett	Fort, near Hastings	12	543	450	36	124
Fairbanks	Hamilton and Seward	12	559	414	30	14
Farrand	Harper and John R	12	540	438	29	15

LOCATION, NUMBER OF ROOMS, SEATING CAPACITY, AVERAGE ATTENDANCE, ETC.—Continued.

LOCATION.	No. of Rooms. No. of Seats.		Average Attendance for Year.	Average No. of Pupils to Teachers.	Averages No. of Teacher for Year.
Ferry and Jos. Campau.	12	576	515	40	13
Field and Agnes	12	580	524	36	141
Fort, near McDougall	6	291	223	32	7
Brooklyn and Locust	15	753	546	34	16
Rivard and Frederick	8	376	307	37	10
Gratiot, near Leesville	1	42	23	23	1
Hancock and Fourteenth	12	582	520	36	141
Pulford and Ellery	*12	102	91	45	2
Hibbard, n. of Jefferson.	3	136	99	25	4
Thirtieth and Herbert	4	178	94	27	31
	12	523	411	32	13
Twenty-fifth & Labrosse.	8	412	332	37	9
1	12	537	441	34	13
	8	392	372	41	9
1	18	820	699	37	19
	8	391	351	37	91
	8	389	290	34	81
		400	276	31	9
1	12	455	228	27	84
	8	424	383	43	9
		545	524	35	15
	6	286	237	34	7
Arndt and Campau	22	1134	1025	37	271
	Ferry and Jos. Campau. Field and Agnes Fort, near McDougall Brooklyn and Locust Rivard and Frederick Gratiot, near Leesville Hancock and Fourteenth Pulford and Ellery Hibbard, n. of Jefferson. Thirtieth and Herbert Abbott and Sixth Twenty-fifth & Labrosse. Willis, near Woodward. Fort, near Chene Selden and Greenwood Waterloo, near Dubois Brady and Antoine Livernois, nr. Michigan. Ivy and Twenty-third McKinstry and McMillan 29th, near Jackson Elm, near Brooklyn	Ferry and Jos. Campau. 12 Field and Agnes	Ferry and Jos. Campau. 12 576 Field and Agnes	Ferry and Jos. Campau. 12 576 515 Field and Agnes	Ferry and Jos. Campau. 12 576 515 40 Field and Agnes

LOCATION, NUMBER OF ROOMS, SEATING CAPACITY, AVERAGE ATTENDANCE, ETC.—Continued.

schools.	LOCATION.	No. of Rooms.	No. of Scats.	Average Attendance for Year.	Average No. of Pupils to Teachers.	Average No. of Teachers for Year.
Palmer	Horton, near Beaubien	8	409	344	38	9
Parke	Boulevard & Milwaukee.	14	638	72	29	21
Pitcher:	Sullivan and Butternut.	12	542	510	38	13 1
Poe	Lysander, near Sixth	8	394	312	31	10
Potter	Tillman, near Myrtle	6	309	267	41	61
Preston	Seventeenth near Howard	8	392	322	36	9
Roberts	Adelaide, near Antoine	8	387	325	38	81
Rose	Van Dyke, n. of Gratiot.	12	570	303	36	81
Russell	Russell, near Eliot	16	722	441	37	12
Scripps	Belvidere, nr. Kercheval	12	567	5 15	36	141
Tappan	Thirteenth & Marantette	16	762	657	39	17
Tilden	Kirby and Brooklyn	16	834	830	34	24+
Trowbridge	Forest, near Antoine	12	597	495	3 3	15
Ungraded	Champlain, near Russell	4	56	29	10	3
Van Dyke	Van Dyke and Kercheval	12	591	464	33	14
Wash -Normal	Beaubien, near Madison	18	818	682	27	25
Webster	Twenty-first and Howard	18	911	791	38	21
Wilkins	Porter and Second	†12	337	249	31	8
Williams	Canfield, near Mt. Elliott	12	655	650	45	141
School for Deaf	(Wilkins School)	 • • • •	34	27	5	5
Central High	Cass, Warren & Hancock		15 2 4	1433	24	62‡
Eastern High	Pulford and Ellery		285	235	12	26‡
Western High.	Scotten, near Baker	٠.	815	484	18	28‡
Supervisors	· · · · · · · · · · · · · · · · · · ·	ļ		ļ		51
Total		734	36950	30614	33	920
				·	-	<u></u>

^{*}Ten rooms occupied by High School Department, †Four rooms occupied by Deaf School, !Including clerks.



The following table shows the different salaries paid per school month, and the number of teachers to whom certain salaries are paid according to pay-roll of June, 1901:

1	teacher	at	\$30.00	per	school	month
68	4.6	6 6	35.00	٠,،		44
42		"	40.00	66	4 6	6.6
45	6.	4 6	45.00	4 6	6.6	6 6
64	6.6		50.00	4.4	6.	
43	44	"	55.00	6 6	6.6	. 6
1	44	. 6	58.75	"	6.6	4.6
43	4.6	4 6	60.00	"	6.6	6.4
40	6.6	6 6	65.00	4.	4.4	66
357		66	70.00		4.	4.6
4	6.6	"	73.12	"	44	6 6,
2	6.	"	75.00	6.6	• •	6.6
3 0	4.6	"	77.50	6 6	• •	
10	6.6	44	78.00	"		6.6
8	6.6	"	80.00		٤.	6.6
4	6.6	44	82.87	"		4 6
15	**	6 6	85.00	64	6.6	4.4
7		44	87.75	6.6		6.
2	6.6	"	88.00	"		4.6
19	••	44	90.00	66	4.4	6.6
2	"	66	92.50	64	6.	6.6
6	66	66	92.62	44	• •	4.6
3	6.6	"	92.87	44	6.6	
48	4.6	66	97.50	6 6	· ·	4.6
1	6.6	6.6	97.75	6 6	4.6	
3	4.6	66	100.00	46		"
2	6.6	66	107.50	4.6		4.4
3	٠. ,	"	110. 0 0		6.	"
1	• •	"	112.50		4.6	66
31	4.6	"	1 20.0 0	"	66	6.6
3	6 6	"	136.50	"	••	6.6
3	6.6	66	140.00	6.6	••	. * *
8	4.4	66	150.00	"	• •	66
1	66	"	156.00	4.6	4 4	44
4	6.6	"	165.09	6.6		::
1	6 6	"	170.00	4.4		6.6
1	44	"	175. 60	44	44	4.4
3	• 6		180.00	4.6	6 6	"
2	6.6	4.6	200.00	4 4	4.	66
1	44	"	300.00	6 6	••	"

REPORT OF PRINCIPAL OF CENTRAL HIGH SCHOOL.

Detroit, Mich., July 19, 1901.

Mr. Wales C. Martindale, Supt. of Schools:

I herewith submit my second annual report of the Central High School for the year ending June 30, 1901.

In submitting this report I wish to say that the year has been a successful one. There has been no evidence of friction. A good working spirit has pervaded the school. Teachers and students alike have been interested in their work. The former have been conscientious in the performance of their duties; the latter have been interested in their work and determined to succeed. Such a condition is indeed most gratifying to me.

The enrollment for the year 1900-1901 was larger than it was the preceding year. The number enrolled the first semester was 1,606, and the second semester 1,677. The year being free from interruptions of any kind, the attendance was consequently good.

The January graduating class numbered 63 and the June class 82, making a total of 145 for the year. The number graduated from each course is as follows:

Classical January 7 June15	Latin 20 36	Latin- Scientific 12 11	Modern Language 2	English 18 15	Commercial Total 4— 63 0— 82
_				_	
22	5 6	23	7	33	4—145

The percentage of boys and girls in the two classes is as follows:

January, 1901—Boys, 38 per cent; girls, 62 per cent. June, 1901—Boys, 28 per cent; girls, 72 per cent.

The January graduating address was given by Prof. Benjamin S. Terry, head of the department of Mediaeval and English history in Chicago university. The subject of his address was, "An Education and What to Do With It."

The June class had the pleasure of an address from Prof. Albion W. Small, head of the department of sociology in Chicago university. "The Young Man's Age" was his subject.

It is gratifying to know that so many intend to continue their work in college. At least 90 per cent of those intending to take a collegiate course will go to the University of Michigan, and the rest to Wellesley, Westminster, Cornell and Mt. Holyoke. In addition to those who will go to college, each class will have a good representation in the kindergarten and normal training classes, preparing themselves for service in the public schools of Detroit.

The new course of study went into effect at the beginning of the second semester. It has a number of points in its favor when compared with the old courses. (1) The number of required studies has been diminished and the number of electives increased. (2) More English is required of all students. (3) The two-and-one-half hour courses in the ninth and tenth grades have been eliminated. (4) The languages are elective. (5) Teachers, principals, and parents will have an opportunity to direct and shape the work of students to a greater extent than before.

The time has come for us to break away from the bondage of courses of study. The needs of the individual should be studied and his needs met. It is a trite statement that all students are not equally endowed—that all have not equal ability to master mathematics, sciences, and languages. The educational value of a study varies with the individual.

The course of study, as it has been planned, permits the work to be adjusted to the pupil as he develops. Some students show ability for mathematics; others, for languages; others, for history and literature; others for sciences. While pupils and parents have a voice in the selection of studies, yet they are ready and willing to place the shaping of individual courses of study in the hands of principal and teachers.

The new course of study places greater responsibility on principal and teachers, but we are ready to bear the responsibility when we know that an opportunity to study individuals and meet their needs, rather than require them to pursue studies the subject-matter of which, even after hard work, scarcely leaves a trace, will save many from dropping out of school discouraged and disheartened.

Since July 1, 1901, seven new teachers have been placed on the force to take the places of those who retired from school work, or secured better positions elsewhere. I wish to express my appreciation of your determination, and that of the Board of Education, to secure none but the best teachers—teachers whose scholarship is first-class; teachers who are endowed with good common sense; teachers with successful school experience. In securing teachers possessing these qualifications, you have been very successful.

In conclusion, permit me to thank you for your valuable suggestions, your uniform courtesy and consideration, your earnest support and hearty coöperation.

Respectfully submitted,

JAMES H. BEAZELL,

Principal Detroit Central High School.

Dightzed by Conglete

REPORT OF PRINCIPAL OF EASTERN HIGH SCHOOL.

Detroit, Mich., Sept. 20, 1901.

Supt. W. C. Martindale:

Dear Sir-I herewith submit my fourth annual report as principal of the Detroit Eastern High School. past year has been one of steady growth and without any incident worthy of special mention. Our enrollment has been chiefly in the ninth and tenth grades, but is all that could be expected considering the small number of pupils enrolled in the eighth grades of this district. Because of the small number of pupils in the upper grades, one of the most perplexing problems that confronts us is to keep down the number of classes formed, and yet give the pupils an opportunity of securing the various subjects offered in the catalogue. To do this it has been found necessary to give some subjects every other semester only. In the language work, this method has been found impracticable, and in Latin and French it has been necessary to combine the work of grades two years apart into one class. While this is very unsatisfactory and greatly increases the difficulty of arranging a satisfactory schedule of recitations, it seems to be the only plan which can be carried out.

The attendance in the "higher" grades on the East Side is further materially reduced by the fact that many pupils enter high school expecting to remain but a short time and leave school when a suitable position opens to them.

The greatest value of high school training to a pupil is not in the knowledge secured, but in the development of the individual. It is the opening of a new life. In the grades, he has done his work under the direct supervision and in the presence of his teacher; in the high school, the work is done principally at home and independent of the teacher. If successful, he must form habits of self-control and independent action. Life consists of choosing one of two ways presented, and this choice is ever before a pupil pursuing a high school course. This training comes to the pupil who remains but a short time as well as to the pupil who completes the regular course of study. Thus all pupils completing the work of the grades should be encouraged and urged to enter the high school if possible, though they may intend to remain but a short time.

The plan inaugurated last year of combining the branch and school libraries has proven as satisfactory as was anticipated. We regret the decision of the Library Commission to retain the branch library in the Harris building, as it will decrease materially the number of books readily accessible to the pupils for their work in English and Literature. It contains many reference books in science which were secured for the use of the teachers and pupils of the higher grades. Possibly a permanent loan of these books might be secured.

The changes made in courses of study during the past year have already exerted a good influence. Formerly a pupil who failed in one subject was practically unable to graduate with the class in which he entered. This was due to the large number of required subjects. But with the present elective system, a pupil who is capable of doing the work can easily secure the required subjects and from the electives the number of hours' work necessary for graduation. In other words graduation in the future will depend on the ability of the pupil to do the work rather than on his success in fitting in a large number of required subjects. This will prevent many who have failed in one subject from leaving school. We were fortunate in being able to so arrange our schedule that by another semester all grades will be working under the new courses of study. This immediate changing of all grades seemed preferable to having the pupils and teachers confused with two systems in the school at the same time.

Over 50 per cent of our alumni have entered some higher institution of learning. The interest manifested in higher education by the graduates of this school has been to the teaching force a source of inspiration and gratification.

In conclusion, we would publicly acknowledge the hearty support and sincere loyalty of our teaching force, and trust that the results of the past year are but an earnest of the years to follow.

Respectfully submitted,

S. L. HOUGHTON.

REPORT OF PRINCIPAL OF WESTERN HIGH SCHOOL.

June 30, 1901.

Supt. W. C. Martindale:

Dear Sir—The annual report of the Western High School for the year ending June 30, 1901, is herewith presented.

This year has been one of good progress. The organization of the school has been complete in all courses of study, teachers have been given work for which they are specially prepared, and very satisfactory results have been attained.

Teachers have worked in entire harmony and have manifested an excellent spirit of mutual friendship and helpfulness. This friendly regard has extended to students also, who have not only been encouraged to their best efforts in study, but they have learned the arts of right social intercourse, courtesy and friendship, which form the basis of highest manhood.

It is of the greatest importance that teachers of youth have not only good scholarship, but an ability to impart knowledge and inspire their pupils to make the most, the best of life.

The departments of applied and natural science have attained a high degree of excellence. No other departments require so many hours' work by the teachers as these, yet by much work overtime, they have constructed much valuable apparatus and other aids, which pupils have enjoyed and used with great profit. Mental discipline, practical knowledge, and manual training have kept even pace in these departments.

The commercial department also deserves special commendation. The instructors have had practical business experience as well as good experience in school, the courses are as complete as in any business college, and everything is done in a business-like manner. The attendance is fast increasing, and pupils take great interest in their work.

In the state university and in several colleges where the graduates of this school have been received, it has gained a good reputation for thoroughness in all preparatory courses; and our graduates have had little difficulty in obtaining good business positions.

Patrons of the school manifest great interest in the progress of their children here, and friendship for the school.

More and more, parents are coming to understand that their children must have mental power and practical knowledge in order to occupy good positions in society and attain business success; and more and more are they depending on the public schools to give the necessary training. Indeed, they demand that the public schools shall be the apprenticeship for good citizenship.

The increasing demands of social life, and of scientific methods in modern business life, make the high school a necessity for completion of the preparation begun in the grades.

Therefore, manual training, so well begun in the kindergarten, and its scope broadened in the grammar grades, should be continued on a still broader scale in the high school. We have some manual training in chemical and physical laboratories, which adds greatly to the interest and value of these studies; but when every department of study shall be accompanied by its practical application, when mental power shall have its complement in

manual skill, pupils will learn that education is not a means for avoiding work, but for knowing better how to work. Then will pupils go forth from school, both able and willing to think and work, and not shirk responsibility.

In conclusion, permit me to express the high appreciation of myself and teachers for your wise supervision, for the generous provision for our wants by the Board of Education, and for the hearty support accorded by the patrons of the school.

Very truly yours,

C. B. HALL, Principal of the Western High School.

Table of Membership by Classes and Courses of Study.

COMPLETE ENROLLMENT FOR FIRST SEMESTER, 1900-1901.

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	Total.	2	282	8	፯	178	2	፩	3	級	1616
GRAND TOTAL.	Girls.	32	3	2	25	8	8	8	5	2	8
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COURSE OF STUDY.	Grades and Classes.	9 B	9 A.	10 B	10 A	11 B	11 А	19 B	18 A.	P. G	Total

Table of Membership by Classes and Courses of Study.

CENTRAL HIGH BOHOOL.

COMPLETE ENROLLMENT FOR SECOND SEMESTER, 1900-1901.

COURSE OF STUDY.	CLAS	CLABBICAL,		LATIN	ż	L SCIE	LATIN SCIENTIFIC.	, i	Modern Language.	DERN	!	Киогівн.	Эн.	3°	COMPAGE.	ا ند	88 84 84	SPECIAL.		GRAND TOTAL.	6.4
Grades and Classes.	Boys.	Girla. Total.		Girla	Total.	Boys.	Girla,	Total	Boys.	Total,	Boys.	Girle	Total.	BOYA	Girla	Total.	Boya.	Total.	Boys.	Girle.	Total.
Not classified by Courses	<u> </u>	<u> </u>	 					<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	 	<u>' </u>	<u>!</u> I	<u> </u>	8	178	38
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	*	-	13	<u>8</u>	8	82	7	8	4	- 8	<u> </u>	8	8	22	10	12	Oŧ.	-	8	8	32
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Table of Membership by Classes and Courses of Study.

EASTERN HIGH SCHOOL,
COMPLETE ENROLLMENT FOR FIRST SEMESTER 1900-1901.

1	TOTAL.	Boys. Girls.	5281044-180 824-17008099 014924801458	110 138 248		TOTAL.	Girla. Total.	860 800 800 800 800 800 800 800	181 159 284	189 180 319
	ا ن	T'otal.	<u>4.280.595</u>	24		- N	Boys.		48 18	~
	SPECIAL.	Girls.	GC07-6025	7		No LANGUAGE.	Girls. ——Total.	v e5∝«===0	20	
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9	MODERN LANGUAGE.	Girls.	443033300	6	SE	ij	Total.	©000×0×000	15	
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FOR FIRST	LATIN SCIENTIFIC.	Girls.	80110-00-0	 	FOR SECOND	÷	Total.	401000000	8	l :l
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	LATIN.	Girls.	@ 20 0 1 21 C - 4 C] ° '	EN				Γ	
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ENACLEMENT	SSICAL.		000000	27	NROLLE					
OMPLE LE ENKO	CLASSICAL.	Total.	00	2	COMPLETE ENROLLMENT	COURSE OF STUDY.	Grades and Classes.			Total Enrollment for year 1900-1901.

Table of Membership by Classes and Courses of Study.

WESTERN HIGH SCHOOL. COMPLETE ENROLLMENT FOR FIRST SEMESTER, 1900—1901.

li	6.5	Totals.	38	108	8	5	23	8	2	81	82	128
I	GRAND TOTAL	Girls.	55	23	8	4	8	16	81	Ξ	20	8
	91-	Boys.	8	8	4	8	2	138	13	00	80	2
	į.	Total.	12	4	10	4	10	4	*	0	•	#
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	ġ,	Total.	82	81	17	10	10	•	•	•	•	₩
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	. 11	Total.	7	ž	8	8	92	7	74	22	6 5	8
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	설	Boys	13	14	2	2	<u> </u>	0	•	-0	<u> </u>	18
	R.W.	Total	40	4	-	4	0	-	0	•	0	12
	Modern Language.	Girls.	•	ò	_	80	•	_	ت	•	•	l a
		Boys.	OH.	GS.	-	_	•	•	•	•	0	-
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	ž.	Total.		<u>~</u>	•	•	22	_	4		•	\$
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	COURSR OF STUDY.	Grades and Classes.	ж 6	9 A	10 В	10 A	II B	11 A	12 B		P. G	Total

Table of Membership by Classes and Courses of Study.

WESTERN HIGH SCHOOL.	MPLETE ENROLLMENT FOR SECOND SEMESTER, 1900—1901.	CLASSICAL. LATIN. SCIENTIFIC. LANGUAGE. KNGLISH. COMMER- SPECIAL. TOTAL.	Boys. Girls. Total. Total. Boys. Girls. Total. Total. Boys. Girls. Total. Total.	1 8 4 6 5 11 13 8 21 1 2 8 12 30 42 17 30 37 9 18 28 59 81 140	0 2 2 2 8 4 7 12 6 18 1 2 8 10 18 28 13 15 26 6 6 12 45 58 96	0 0 0 1 2 8 12 10 28 1 8 4 11 19 30 12 10 29 8 5 8 40 49 89	1 2 8 2 3 5 12 9 21 0 2 2 6 12 18 9 10 19 8 6 9 88 44 77	1 1 2 4 3 7 7 6 18 1 3 4 6 21 27 8 2 5 8 8 6 25 39 64	0 8 8 8 11 7 9 16 0 0 0 8 6 9 8 2 5 8 2 6 19 80 49	1 1 2 0 3 3 2 5 1 0 1 3 8 11 2 0 3 1 8 4 11 17 28	0 0 0 1 3 4 5 7 12 1, 0 1 4 9 18 0 0 0 2 1 8 18 30 88	1 1 2 0 2 2 2 1 3 0 0 0 1 4 5 0 1 1 0 0 0 4 9 18	8 13 18 20 83 53 73 74 131 6 12 18 56 127 188 59 60 119 30 89 69 846 841 541
WESTER	ENROLLMENT	LATIN.	LatoT. Boys. Girls. Total.	A 0	es &	8	80 64	4	80	8		0	18 20 88
	COMPLETE	COURSE OF STUDY. CLAS						1		1	:	1	Total.
		COURSE	Grades	9 B.	9 A	10 B.	10 A	11 B	11 A	12 B	12 A	P. G	Total

Complete Enrollment by Subjects.

OENTRAL HIGH SCHOOL.
FOR FIRST SEMESTER, 1900-1901.

-	EPORT	OF THE SUPERINTENDENT. 98
æ	Total.	:::::::::::::::::::::::::::::::::::::
Course	Girls.	8 4
රි	Boys.	*
ಹ	Total.	
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Course 2a.	Girls.	38 54
Š	Boys.	10 10 10 10 10 10 10 10 10 10 10 10 10 1
oi	Total.	
Course 2.	Girls.	25 8 3 1 2 6 8 8 8 8 8 8 8 8 8 8 9 8 8 9 8 9 9 9 9
8	Boys.	988 98 98 98 98 12 98 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ej.	Total.	
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	Total.	21.42141888888888888111588111
ırBe	Girls.	822126043882241288211788004
Course 1.		\$225
Course	Girla.	8231500458426452882411280004

Complete Enrollment by Subjects—Continued. OENTRAL HIGH SCHOOL. FOR FIRST SEMESTER, 1900-1901.

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Complete Enrollment by Subjects. OENTRAL HIGH SCHOOL. FOR SECOND SEMESTER, 1900-1901.

	REPORT	
8	Total.	*
Course 8a	Girls.	
S	Boys.	9 9
esi	Total.	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Course 8.	Girls.	8 8 8 8 8 7 1 8 8 7 8 8 1 1 1 1 1 1 1 1
ဒ	Boys.	8
gi	Total.	2 8
Course 2a.	Girls.	3 . 8
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oí	Total.	8850-846 85525-4:1:88 : :
Course 2,	Girls.	88.047.87 : 20884 98.0851 :52
S	Boys.	1000 x 5110 x x 820 c x 600 13 2 20 1 1 1
1a.	Total.	88 2
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Co	Boys.	\$
1.	Total.	8888 6 2 0 3 4 5 5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Course 1.	Girls.	288222-83 2853.032228.2320000
Ç	Boys.	824F4155 4528458F5800880F4
	·	
		Algebra Arithmetic Bota keeping Geometry Geometry Geometry Geometry Geometry Hattory Latin Literature Physiology Reviewa, Senior: Reviewa,

Complete Enrollment by Subjects-Continued.

CENTRAL HIGH SCHOOL. FOR SECOND SEMESTER, 1900-1901.

Grand Total	Total.	100 100 100 100 100 100 100 100 100 100
L Di	Girls.	445 8 20 4 80 11 12 12 12 12 12 12 12 12 12 12 12 12
Gra	Boys.	\$\$ 4 \$ 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
ر ق	Total	\$6 ·
Course 8.	Girls.	2
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	Boys.	::::::::::::::::::::::::::::::::::::
e 6.	Total.	# # # # # # # # # # # # # # # # # # #
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ė.	Total.	<u> </u>
Course 5.	Girls.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Boys.	
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Course 4a.	Girls.	₩
8	Boys.	
e 4.	Total.	18
Course 4.	Girls.	8 5 8 9 9 5 5 8 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6
0	Boys.	\$ 8 £
		Algebra Arithmetic Bookkeeping Botonly Commercial Law Commercial Law Commercial Law Expension Expension Expension Geography Geometry Geometry Geometry German Greek History Latin Literature Physics P

Complete Enrollment by Subjects.

EASTERN HIGH SCHOOL. FIRST SEMESTER 1900-1901

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rotals	Girls.	88018850852808-152188
¥ !	Boys.	20-48-48-48-88-88-48-88
VIII.	.latoT	
	Girls.	0.40
Course	Boys.	
VII.	Total.	1 : : : : : : : : : : : : : : : : : : :
	Girls.	: : · · · · · · · · · · · · · · · · ·
Course	Boys.	
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Course VI.	Girls.	C 4
Š	Boys.	64.4
Þ.	Total	2
Course V.	Girls.	w
Ŝ	Boys.	₩
ï.	Total.	
Course IV.	elrlə	1 : 4 : 94 : 50 54 : 55 :
3	Boys.	
Ħ	Total.	2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Course III.	Girls.	33 : 80 :37 TO : 120 : 55 co : 41 co
S	Boys.	1 : : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0
H.	Total.	8 5448 v : 1-4 400 80
Course II.	Girls.	8 :
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I-II	Total.	2 2
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ï	Total	82500 20 : 82080
Course I.	Girls.	8 : 44
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		Algebra Arthmetic Botany Book keeping Chemistry Drawing Roglish Roglish Geography Geometry Geometry Geometry Greek History Latin Ratory Latin Physics Physics Physics Physics Physics Physics Physics Physics Physics Physics

Complete Enrollment by Subjects.

EASTERN HIGH SCHOOL SECOND SEMESTER; 1900-1901.

a. Course II. Course IIa. Course III. Course IV.	Total. Boys. Cirls. Total. Boys. Cirls. Total. Total. Total. Total.	88 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Course Is.	Boys. Girls.	60
Course I.	Boys. Cirls. Total.	88 911 88 88 88 88 88 88 88 88 88 88 88 88 8
		Algebra Arithmetic Bolonkeeping Bolonkeeping Bolonkeeping Chemistry Chemistry Chemistry Chemistry Chemistry Chemistry Chemistry Chemistry Geometry Geometry Geometry German Greek Fluisory Latin Physiology Physiology Physiography

Complete Enrollment by Subjects—Continued.

EASTERN HIGH SCHOOL. SECOND SEMESTER, 1900-1901.

Complete Enrollment by Subjects.

WESTERN HIGH SCHOOL.

FOR FIRST SEMESTER, 1900-1901.

Total, Boya, Girla, Total, Boya, Girla, Total, Total, Total, Total, Boya, Girla, Total, Boya, Cirla, Total, Total, Total, Total, Total, Total, Total,	2
Boys. Girls, Girls, Girls, Girls, Girls, Goys, Girls, Total, Total, Total, Total, Total, Cirls, Cirls, Cirls, Cirls, Cirls, Colris, Colris, Total, Total, Total, Total,	11
Boys. Girls, Total, Boys, Girls, Girls, Goys, Girls, Total, Total, Total, Total,	22
Boys. Girls, Total, Boys, Girls, Girls, Girls, Total, Boys, Girls, Girls, Total, Total, Total,	10
Boys. Girls, Girls, Girls, Girls, Cirls, Colris, C	62
Boys. Girls, Total. Boys, Girls, Total. Total. Total. Total. Total. Total.	25
Boys. Girls, Girls, Girls, Girls, Cirls, Colal, Colal, Colal, Total,	26
Boys. Total. Boys. Girls. Goys. Clris. Total. Clris. Clris. Total.	20 21 22 22 22 22 22 22 22 22 22 22 22 22
Boys. Total. Boys. Cirls. Cirls. Total. Total. Cirls.	62
Boys. Girls, Total. Boys, Girls. Total.	25
Boys. Girls, Total. Boys, Girls, Total.	22
Boys. Total. Total. Girls.	12
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Boys. Girls. Total.	12
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Total.	2 :8228fr. :87 :488 : :5 :
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Boys.	\$ 54555 s = 554 6
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	Girla. Total. Boys. Girla.

Complete Enrollment by Subjects.

WESTERN HIGH SCHOOL.

FOR SECOND SEMESTER, 1900-1901.

ota	Total.	20220122486280125881427
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Gran	Boys.	### ### ### ### ### ### ### ### ### ##
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Course VII.	Total.	::::::::::::::::::::::::::::::::::::::
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Course	Girla.	8 :01450000024 -017 : 0 :
ა	Boys.	2 : 128 × 65 118 × 118 × 7 : 7
i e	Total.	#8444450488 888E485
Course	Girls.	2282887 881 88528984
Ŏ	Boys.	24811108-818-818-818-818-818-818-818-818-8
		Algebra Arithmetic Bookkeeping Bookkeeping Citemistry Drawing French French Geometry Geometry Gerek History Latin Physicology Spelling Phonography

Report of Ages of Pupils in the Detroit Central High School,

SECOND SEMESTER, 1900-1901.

	PORT	OF	THE	~0	PER					
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22		:	-	_	63	:	83	:	:	9
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12		87	-	63	က	-	5	83	81	81
କ୍ଷ	63	:	-	က	2	11	12	40	က	3
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18	12	13	23	36	35	46	38	13	x 0	823
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16	66	8	2	92	9	14	1-	-	:	382
15	117	91	8	16	-	0 0	67	1	:	302
14	69	40	œ	9	:	:	:	:	:	123
13	19	9	-	<u>:</u>	:	_ : :	:	_ <u>:</u>	:	8
13	:	93	:	:	:	:	:	:	:	67
AGE IN YEARS.	9 B	0 А	10 B	10 A	11 B	11 A	12 B	12 A	P. G	Total

Report of Ages of Pupils in the Detroit Eastern High School.

SECOND SEMESTER, 1900-1901.

Total	111	19	35	ន	ଛ	14	6	œ	က	284
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	:	:	<u>:</u>		<u>:</u>	<u>:</u>	:		<u>:</u>	<u> </u>
21		<u>:</u>	:		<u>:</u>		<u>:</u>		:	81
8		-	:	0	1	:	-	81	2	1-
19		0	4	83	က	1	67	67	-	15
18	4	က	က	က	4	4	-	81	•	22
11	6	10	112	-	2	9	4	:	:	83
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15	8	13	4	4	81	:	:	:	:	28
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13	4	-	:	:	:	:	:	:	:	20
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AGE IN YEARS.	9 B.	9 А	10 B	10 A	11 B	11 A	12 B	12 A	P. G	Total

Table Showing by Grades and Classes the whole number Enrolled in the High School, and the number Graduated for each Semester of the past Twenty Years.

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January, 1895	June, 1080.	January, 1896	June, 1896	January, 1897.	June, 1897	January, 1898	June, 1896	January, 1899.	June, 1899	January, 1900	June, 1900	January, 1901.	June, 1901

Summary of Books in Library, Per Accession Book June 25, 1901.

EASTERN HIGH SCHOOL.

 Total number of School Board Total number of Public Library THESE ARE CLASSIF 	Books		
Pr	blic Library	School Board	Total
000 to 099 General Works	4	16	20
100 to 199 Philosophy	1	2	3
200 to 299 Religion	14	3	17
300 to 399 Sociology	56	70	126
400 to 499 Philology	49	89	138
500 to 599 Natural Science	83	131	214
600 to 699 Useful Arts	7	26	3 3
700 to 799 Fine Arts	10	6	16
800 to 899 Literature	181	397	578
900 to 999 History	254	22 0	474
Total	659	960	1619

Public Ungraded School No. 1.

REPORT FOR SCHOOL YEAR ENDING JUNE 21, 1901.

ENROLLMENT.

No. entered at beginning of term	35
No. entered by Officer GebbettStreet, 32 School, 21	
No. entered by Officer Harris Street, 10 School, 13	
No. entered by Officer JordanStreet, 19 School, 7	26
No. entered by Officer BreaultStreet, 2	2
No. entered by choice	10
Total enrollment	 L49
LEFTS.	
No. transferred to public schools	40
No. attending parochial schools	12
No. sent to Industrial School for Boys, Lansing:	
Truancy	6
Juvenile disorderly	4
No. gone to work	24
No. moved from city	8
No. under care of officers	
Total No. left	102
No. belonging at date	47

J. A. SINCLAIR, Principal.

Report of the Supervisor of Music.

Mr. Wales C. Martindale, Superintendent of Public Schools:

My Dear Sir—In submitting to you my annual report for the year ending June, 1901, I am pleased to say that the work in music in the schools has made gratifying progress during the year. It is difficult to give any fair or adequate account of the work because of the very steadiness and regularity of its nature.

Lessons have been heard and given in every school room in the city, each of which has been visited several times during the two terms.

Besides the daily routine of visiting the schools, giving instruction to classes, criticising faults that may have been found, and suggesting remedies, lessons have likewise been given to the teachers.

Much special music has been prepared and furnished, appropriate to the different seasons of the year, and holidays and patriotic occasions have been marked by fitting efforts in music as in other lines of work.

While the year with its routine has been a busy one, it has been likewise enjoyable in many ways and not without occasions that have brought compensation for persistent, every-day labors.

The principals, teachers and pupils have shown such willingness and have been so helpful in the many extra occasions, that not only their interest but their appreciation of the music has been manifested.

Early in the year the Viscaya cannon was unveiled and exercises appropriate to the occasion were held in the Light Guard armory. The children were invited to assist and a chorus of four hundred sang a number of songs.

In March two concerts were given for the benefit of the entertainment fund of the National Educational Association, and the pupils took part with great earnestness and enthusiasm and made the concerts a great success, both financially and artistically. They gave two more concerts for the same object in May.

On May 30th four hundred pupils from the sixth grade sang for the Memorial Day exercises. Only one rehearsal was held for this and the success of the choruses shows that the pupils were well acquainted with our patriotic songs. This is a feature of the work in the schools, for I believe that there will be no room for anarchy where children learn and sing of the glories and achievements of their country.

The year in music has been a busy one, as the regular work in music was accomplished in addition to the concerts.

I wish to thank you for your kind assistance given me in my work of the year.

Respectfully,

EMMA A. THOMAS.

Report of Supervisor of Drawing.

Mr. W. C. Martindale, Superintendent of Schools:

Allow me to submit to you my annual report in Drawing for the year ending June 22, 1901.

The art work in the schools has been characterized by more attention to color, as its introduction has been general in all of the grades.

It is gratifying in the extreme to note the advance in this work and the unexpected results as shown in the three thousand specimens of class room exercises which have been collected for the educational exhibit to be shown at the Central High School in July.

Perhaps it is needless for me to say that much joy and happiness have gone into this work, for one needs only to visit the class room and to see pupils with their material at work to believe that color must be closely associated with the upbuilding of the forces of life. Joy and happiness are positive things, things which rule and control.

Those who can appreciate the drawings of children see in them the simple conception, the free expression, the loose handling, the poetic feeling and the significance of line and color rather than the qualifications that make for mechanical accuracy. Accuracy is scientific, and as such it is valuable. It should be the aim of every student to attain it, but not immediately. It tells the truth but it tells all of it, leaving nothing to the imagination; and yet the greatest charm of an art form is its suggestiveness, its power to carry thought beyond its own expression. The unerring hand and the sensitive eye are but the results of time and training. I believe that our

immediate aim should be rather to awaken the child's consciousness, to exercise his judgment, to stimulate his creative imagination and to arouse his sympathies. Never before have conditions been more favorable than at present for the development and growth of the true art spirit in our schools; and never have we been in a stronger position to defend our educational creed in terms of art.

Before closing this report let me extend to the teachers of the city my sincere thanks for the hearty and earnest way in which they have met directions and have carried out the plans for the new work; and to the Board of Education for courtesies received at their hands, and for material furnished the department. And, finally, allow me to extend my grateful acknowledgments to you for your able counsel and unvarying support in all matters pertaining to the advancement of art in the schools.

Respectfully submitted,

MYRA JONES, Supervisor of Drawing.

Report of Supervisor of Physical Training.

Mr. W. C. Martindale, Superintendent of Schools, City:

Dear Sir—In presenting the report of the Physical Training Department for the year ending June 21st, 1901, I feel that it will necessarily be but a repetition of last year's statement, inasmuch as the work has been carried on along the same lines as formerly.

The kindergarten room at the Washington Normal School, which was put at my disposal in January, 1899, and which I have used ever since, is now exclusively used by the kindergarten department, and I have been obliged to give the work to the Normal students on Wednesdays in the room corresponding to it on the third floor; this answers fairly well for them, as they are up there anyway; but, it will not do to ask the teachers after being in school all day to climb three flights of stairs and then expect them to work for an hour afterward. If not a gymnasium, there should be a large room provided somewhere for this department. It should be centrally located, well lighted, and well ventilated; with hardwood floor and furnished with a piano. The other equipments, such as wands, Indian clubs and dumb bells we now have at the Normal school.

I would ask that this matter be brought before the Board at your earliest convenience, as it is absolutely necessary that the teachers go through the exercises with me, before attempting to teach them to the children. It is not enough that they have typewritten outlines; they need the drill, which can only be given in class.

However, the thought that is uppermost in my mind as I write, is the old saying, that "As the twig is bent, the tree is inclined."

During the forty weeks just completed, five days each week, ten minutes each day, we have been trying to bend thirty-five thousand "twigs" in the right direction, so that in the years to come, they may grow up to be straight, strong, and healthy "trees."

The ten minutes a day devoted to the training of bodies, seems very little compared to the five hours given to the training of minds; but even the little tells when summed up at the end of the year.

Probably the best commentary that has been, or could be made upon the work, was voiced by a teacher in one of our largest schools the other day, when she said: "I never realized how much the physical exercises had done for my children until some boys came in from the country and were put in my room, who had had no training. They did not know how to stand, walk or sit properly; they were all arms and legs and had no control of their bodies, whereas, our boys carried themselves fairly well in contrast."

The argument that is often used against gymnastic work in schools, i. e., that it can never take the place of outdoor exercise, and that "a good game of ball is worth all the calisthenics in the world," can easily be outargued by any one who has had any experience in physical work, and the foregoing remark of the teacher in the Cass School is a direct refutation of the oft repeated statement of those who think physical culture a fad. To illustrate: The boys from the country had probably had more outdoor exercise than the city boys, and had played ball equally as much or more, but they had had no training; consequently, did not know how to walk, stand or sit;

they had never been taught to lift their feet when they walked, so they dragged them along or "shuffled;" they had never been taught to stand on both feet when reciting, so they dropped down on one foot, with the result that one hip and one shoulder would be higher than the other and the body thrown entirely out of position. In sitting they had been allowed to double up any way, sit on one foot, with chest flat and head drooping forward, and having contracted these bad habits, it was little wonder that the teacher said "they had no control of their bodies."

Calisthenics in the schools were never intended to take the place of exercise in the open air; neither can any amount of foot ball, hand ball, running or jumping correct round shoulders and flat chests, or teach children to stand, sit, walk and breathe correctly; we must have both to round out the growing boy and girl.

The plan adopted this year in the school room by a number of teachers, allowing the children to lead the exercises, while they look out for those needing special attention, has worked wonders in many instances, both in stimulating the pupils to do their best work so as to be allowed to "lead next time," and, in relieving the teacher. Many times the work might go by default, because she was not feeling well enough to go through the exercises herself; whereas, by this arrangement, she can watch the class, give the commands, and make corrections without any physical exertion.

In closing, I wish to extend a very cordial invitation to members of the Board of Education, to visit the schools and inspect the work, and will be very grateful for any suggestions or criticisms that you or they may have to offer for the coming year.

Yours very respectfully, CHARLOTTE CARNE.



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Report of Director of Manual Training.

Mr. W. C. Martindale, Superintendent of Schools:

Dear Sir—I herewith submit my annual report of the Department of Manual Training for the year 1900-01.

Manual training has during this year been extended to twelve additional schools; the teaching force was increased by one teacher of Sloyd, one of cooking and two teachers of sewing.

Cardboard construction was taught in the fourth grades of schools which had this work last year in the fifth and sixth grades, and this branch of instruction was introduced in the fifth and sixth grades of twelve additional schools, making, all told, twenty-five schools in which this branch was taught.

The teaching of cardboard construction was in charge of the grade teachers, who spared neither time nor effort to make themselves efficient manual training teachers, and I am glad to be able to say that, through their efforts, this work has proved a valuable means of training and discipline to the boys.

In twelve additional schools instruction in sewing was given in the fifth and sixth grades, making, all told, twenty-five schools in which this branch was taught in the above grades.

The special teachers of sewing have given instruction at an average to five hundred pupils each, one hour per week being given to this work. Careful consideration has been given to the course of study, at the teachers' monthly meetings, and such changes made as the conditions seem to call for. Miss Osius, one of the teachers in sewing, who worked out the course last year, has occasionally led these discussions and thus added materially to the success of this work.

The seventh and eighth grades received instruction in bench work and cooking at the manual training centers. During the year two new centers were established, the Duffield School and the McGraw School centers; two rooms were equipped in each school, one for the bench work and the other for the cooking. The Duffield center accommodated the pupils in the Duffield school and some of the classes in the Field, Barstow and Everett schools. In the McGraw center we had pupils from the McGraw, Estabrook and Columbian schools.

An additional cooking center was equipped in the Newberry school, the equipment being presented to the city by Mrs. John S. Newberry.

The work on a more uniform course in cooking was continued during the year at the monthly teachers' meetings. The teachers spent a great deal of time and spared no effort in arranging this course. A comparative study was made of several of the standard courses in cooking in this country, and a course laid out adapted to the conditions existing in this city.

An extensive exhibit of pupils' work in the different branches under my direction was arranged in the Central High school for the meeting of the National Educational Association. The complete courses of study in cardboard construction, sewing and woodwork were also exhibited. It gives me pleasure to be able to say that our exhibit attracted a great deal of attention among the visiting teachers.

Certain statistics in regard to the courses in manual training for the boys are summarized in the following table:

TABLE OF STATISTICS OF MANUAL TRAINING IN THE DETROIT PUBLIC SCHOOLS.

Grade	Kind of Work	Teacher	Pupils	Instruction per Week— Hours	Period of Each Teacher	Pupils in Each Class	Expense of Equipment	Yearly Expense per Pupil	Same Includ- ing Teacher's Salary
Fourth	Cardboard construction	Grade teacher	Boys and girls	1	1	50	\$85	\$0.06	\$0.06
Fifth	Cardboard construction	Grade teacher	Boys	1	1	25	None	\$0.08	\$0.08
Sixth	Knife-work in cardboard and wood	Grade teacher	Boys	1	1	25	\$15	\$0.12	\$0.12
Seventh	Wood construction	Special teacher	Boys	11/2	15	25	\$450	\$0.85	\$2.92
Righth	Wood construction	Special teacher	Boys	11/2	15	25	None	\$0.45	\$8.02

It has been my endeavor to present to the teachers as definitely as possible the principles underlying the instruction in manual training. To this end I have sent out from my office circulars embodying these principles. The following is a representative abstract from these circulars:

The aim of Manual Training is two fold: 1st. The development of useful habits. 2d. The clarification and formation of mental concepts (ideas). This is an arbitrary classification inasmuch as the latter aspect is an instance of habituation as well as the former, nevertheless it will help us in defining the methods of teaching that should be employed.

All mental and physical activity tend toward the development of habits. The different occupations in

manual training will not only develop the specific habits of muscular control or skill in the manipulation involved, but by a systematic arrangement of the exercises and by the proper method of teaching they will tend toward the development of habits of order and neatness, habits of accuracy or truth, perseverance, the habit of self-reliance, and the habit of attacking difficulties and conquering them.

The other phase of the educational value of manual training is the more strictly mental development, the acquisition of vivid and definite mental images. By giving the child an opportunity of objectifying his ideas, constructive exercises furnish the very best possible means for training in observation and in giving definiteness to mental content. The problem before us then as manual training teachers is to combine these two aims in such a manner as to insure the development of useful habits through the lessons in observation and invention.

It is upon the relative importance attached to these two points that systems in manual training differ. Some teachers will emphasize the disciplinary value of manual training, others look upon the constructive exercises simply as a means for training in observation and invention. The former make the lessons a matter of mechanical drill, the latter turn the manual training room into a playroom. We want to steer clear of both these extremes and make the lessons in observation and invention a means for the development of useful habits, or viewed from the disciplinary side we want the so-called formal exercises to have a thought content. Thus in giving a lesson it is essential to bring out as far as possible the personal initiative of the pupil. In other words, give him opportunity to react upon the solution of the problems. In the observation and invention lessons there has been much concern for



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promotion of motor reactions which are of the nature of self-expression. A child's personal initiative, however, is not only encouraged by original creations but by the humbler procedure of thinking out and planning for himself the solution of the different problems set before him.

The disciplinary value of manual training I have summarized in the following table:

THE DISCIPLINARY VALUE OF MANUAL TRAINING.

USEFUL HABITS.

PROCESSES BY MEANS OF WHICH THE HABIT IS FORMED.	RESULTING HABITS.	CONDITIONS FOR THEIR DE- VELOPMENT BY MEANS OF CONSTRUCTIVE EXERCISES.
Objectifying of mental images.	Accommodation, Hab- it of attacking diffi- culties,	A resulting product repre- senting the mental image reached through the pu- pils very best effort.
Occupations giving oppor- tunity for actions involv- ing the elements of order and neatness.	Order and neatness.	A place for everything and everything in its place. An accurate product.
Successful efforts in reaching accurate results.	Accuracy, or truth.	Careful progression of the exercises.
Prolonged efforts crowned by success.	Perseverance.	Attractive models, interest and accurate work.
Final success in the various exercises.	Self-reliance.	Never ask a class to do what they cannot do well.
Acts of service.	Habits of ethical content.	A useful article, the product of the constructive exercises.
Exercises involving muscular activity.	Muscular control,skill.	Variety and repetition of technical difficulties.

These same general principles should, to my mind, govern the instruction in cooking and sewing. Although the economic significance of these subjects is much in evidence, the disciplinary value, I am persuaded, should be given due emphasis in the arrangement of the courses of study and in the method of teaching.

It is with a considerable satisfaction that I can call your attention to the fact that our courses in manual training, especially the cardboard construction, have been studied with a great deal of interest by teachers in other cities. This is true not only of the neighboring towns in this state, but of other parts of the country. I was honored by a request from President Harvey, of the Department of Superintendence, to prepare a report on Manual Training in the Detroit public schools. I complied with the request and read the report before the Department at their meeting in Chicago last February.

With your continued kind cooperation and interest in my work, I feel confident of its further development and increasing usefulness as a regular branch of study in our public schools.

Respectfully yours.

J. H. TRYBOM.



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Report of Principal of Kindergarten Training Department and Director of Kindergartens.

Supt. W. C. Martindale:

Herewith is submitted to you the sixth annual report of the Kindergarten Department of the Detroit Public Schools. My report of last year being so very full, little remains to be said beyond the regular year's work.

The work of the Department aims primarily at the overcoming of wrong habits, and the formation of strong and right habits of thought and living. This aim has been kept steadily in view by both teachers and students, so that we feel justified in stating real progress in many directions.

The work of the Training Department has gone forward as well as could be expected under existing conditions. The teachers have been faithful and earnest in the discharge of their duties, and the spirit has been of the best.

The interest and enthusiasm of the graduates of the Department has been most helpful and gratifying, as for example: Feeling the grave necessity of a much greater knowledge of music, a class has been formed for voice culture and chorus work, under the direction of Miss Stoddard. In addition to this, the history of music has been continued and interest aroused to such an extent that many of the teachers and students are taking up the study of instrumental and vocal music with the best private teachers of the city.

A musical lecture on "Wagner's Rhinebold," by Miss Lloyd, and a paper on "Music of the Nineteenth Century," by Miss Stoddard, together with several delightful hours with Miss Gale as a violinist, have been greatly appreciated by all.

We are again indebted to Miss Katherine Smith for a fine course in Art, the ground covered being Dutch, Flemish and German Art. The broadening and culturing effect of this work cannot be estimated. Some fine Art exhibits and lectures have been enjoyed. Among them one by Mrs. H. H. Crapo-Smith, on "Pottery," will long be remembered. Mrs. Smith had brought to the school a very fine collection of old pottery, and we spent a profitable afternoon in its examination.

The work in clay modeling, drawing and water-color painting has become much more interesting as its ethical, as well as educational value is understood. The following lectures have been most helpful in our efforts at child study, and we wish to express our gratitude to these gentlemen for their kindness:

"Hygiene of the Eye"	.Dr. L. Conner
"Care of the Teeth"	Dr. Shattuck
"First Aid to the Injured"	Mr. Lemon
"Educational Value of the Play Ground".	Dr. Diack
"High Ideals"	Dr. DeForest

Again, we are glad to acknowledge our sincere thanks to Mr. Sargent, of the Detroit Museum of Art, for a fine course and much valuable help in Nature work. Mr. Sargent has given us not only his time and interest, but has held his lectures at the Art Museum, where all material, such as shells, minerals, etc., etc., have been examined and studied at leisure.

Dr. Bennett also gave a good paper on birds, in connection with this work. Two other delightful lectures in connection with the Literature work were given: "Tennyson," by Rev. S. S. Marquis, and "Ruskin," by Rev. Reed Stuart.

Five new Kindergartens have been opened during the year, so that at the close of the school year, June, 1901, twenty-three Kindergartens are in successful operation. The work of the Kindergartens is in most respects good. Many of the rooms are not as large as they should be, and a crowded condition is always disastrous to young children. The teachers have been wide-awake to this, and have done all that could be done.

Let it be said of these teachers that they are a thoughtful, faithful and progressive body of young women.

Our Kindergartens rank with the best in the country, and much of the work certainly shows steady progress toward better things.

Our Nature work has been greatly helped, and our rooms beautified by the courtesy of the florists of the city.

We are met with unfailing kindness wherever we find it wise or profitable to take the children. Those in charge of the stations of the Fire Department have been most generous in giving us time and instruction, as well as delightful entertainment.

Many of our fine musicians have played different musical instruments to our children in the different Kindergartens; and once last winter between seven and eight hundred children from the Kindergartens met at the Woodward Avenue Baptist Church to listen to a musical program, given by some of our best talent. This was a most beautiful sight, and the ability of these little ones to really listen and enjoy would put many an older audience to shame.

Thanking you for your kindly encouragement and support in my work,

Respectfully, C. W. MINGINS.

Report of the Principal of the Normal Training School.

Mr. W. C. Martindale, Superintendent of Schools, City:

I herewith submit the report of the Detroit Normal Training School for the year ending June 30, 1901.

During the year there were one hundred and thirty-five students receiving instruction from the Normal faculty; of these forty-two received certificates and thirty-nine were granted diplomas.

In January a Vice-Principal and a Director of the Training Department were appointed, and the Principal was assigned to the duties of Supervisor of Grades, though still retaining general control of the school. One day each week was devoted to the school, while the remaining four days were spent in supervision in the city schools.

The year has been a profitable one for the institution; many of the plans and experiments of the previous year have been carried to fruition, and have become a part of the educational doctrine and educational practice in both departments of the school.

The application of the theory of studying Geographic units has been worked out with some completeness in the three classes, B and A 4th and B 5th.

Instead of studying North America in the B 4th in its political and physical aspects, and again covering much the same ground in our study of the United States in A 4th and B 5th, we have separated the work into three general centers of interest, and study one of these in each class, doing the work exhaustively with no intention



of returning to the topic. These general centers of interest embrace units which are representative of the different sections and typical of the activities in those sections.

Following the study of Michigan in the A 3d, we take up the Atlantic plain in the B 4th, selecting such significant units as Hudson River (including New York and the Adirondacks, West Point and Albany), the St. Lawrence and Great Lakes (Quebec, Buffalo, etc.), Washington (government center), Charleston (plantation center).

A study of Chicago and its activities in the A 4th necessitates going beyond to the west, whence come the raw materials; to the study of the transportation lines—the means of collection of the raw material and distribution of the finished product, and to the development of the surrounding territory.

New Orleans is studied as the representative and typical city of the Southern States and the outlet of their products. If studied adequately, it must lead to an understanding of the essential features of these States.

All reference to the Western section of North America is delayed till it is fully treated in the B 5th. Among the units studied are: Alaska, Columbia River and its industries, San Francisco (discovery of gold, crossing mountains, transportation, Golden Gate, etc.), Mexico City, etc. South America has been treated in much the same manner.

The success of the experiment in these grades seems to warrant its extension to the grades beyond.

During the preceding year our chief concern in reading was with the first two primary grades; this year we have carried experimentation and investigation into the third and higher grades. An examination of the material for these grades showed a pre-ponderance of didactic (information) matter which, while it undoubtedly has a place, does not tend to the development of a literary sense.

Now we take it that one essential purpose of the reading is the fostering of a literary sense, in order that a child may learn to choose his reading wisely and read appreciatively; with this motive we cast about for suitable material. Ruskin, Stockton, Howells, Ewing, Homer, Macauley, Edith Thomas and others were the sources from which we drew a variety of forms of literary discourse; epic and lyric poems, and (wholesome) prose selections.

The use of this material disclosed to us the fact that the children already have a slumbering literary sense, which needs only bringing into contact with suitable material to be aroused into action.

Further, having found such a germ awaiting development, it becomes the teacher's duty to foster it, because the existence of such germs are his most reliable and significant guides in making a course of study.

These classics, moreover, are models of elegant English, and cannot fail to have their influence in developing the faculty of expression. In reading short poems we paid special attention to image-making power.

It requires much practice and considerable skill for the child to get the image intended by the poet.

When reading such a selection as "Blue Bell Hollow" the children very readily made the topographic image—(they saw the hillside, the flower, the stream in their relative positions) but the poet intended to convey the impression of color, and it required more help (suggestion) from the teacher to enable them to get this.

Some of the apparent disadvantages in experimentation proved to be real advantages. Having only one book,



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we questioned the value of such an exercise, but here lay certain unforseen and substantial advantages; the child who read felt the necessity not only of understanding the thought of the text, but also of conveying it to the others, while, on the other hand, if the reader failed to give full expression to the thought, there was an immediate demand from the listeners for better reading. Since this was sight reading, it was natural that the reader would often come upon unfamiliar words. He would hesitate or hazard pronunciation; the others would, many times, infer from the context what the word should be and supply it.

The appeal to the ear, too, is valuable. We have so long regarded the eye as the one avenue of approach to the mind that it would be well to restore confidence in the report from the ear. The Greeks, it will be remembered, acquired their whole abounding literature through the ear. As a means of cultivating the power of attention, this type of reading is invaluable.

Trusting that this experimental work of the Normal. Training School may ultimately prove of benefit to the city school system, I am,

Most respectfully yours,
OLIVER G. FREDERICK,
Principal Normal Training School.

Report of Principal of School for Deaf.

Superintendent W. C. Martindale:

Dear Sir—I have the honor of presenting to you my first annual report of the Detroit Day School for the Deaf, and the Normal Training Class.

Though the past year has been of necessity largely one of organization, the results are, on the whole, encouraging.

The total enrollment last year at both Hancock and Berry schools was twenty-one. Of this number seventeen returned, and the enrollment has this year reached thirty-seven, most of the new applicants being younger children. This has permitted of the addition of three new teachers from the Normal class. By centralizing the school, it has been possible to grade it, thus enabling each child to have more of the teacher's attention, and the teachers to more accurately follow the course of study.

During the year there were forty-one promotions, one being from the eighth grade to the High school, where we expect she will be able to complete the course with hearing children. The remainder of the school is graded as follows:

Beginners, 5.

B 1st, 5.

A 2nd, 7.

B 3rd, 3.

A 3rd, 4.

B 4th, 4.

Grammar grades, b.

This does not include those who were temporarily left. The difficulty anticipated from the danger of sending these children on the street cars seems to be overcome with great benefit to the children, who are gaining independence and self-reliance.

The question of transportation of indigent pupils was generously met by the Board of Education, making the school easy of access to any deaf child in the city.

Work in cardboard construction, under the supervision of the director of manual training, has been carried on by the class teachers, with the boys, with a great deal of interest, while the girls have taken sewing in a similar manner. We hope to continue this essential feature of a school for deaf and to have the advantage of one of the manual training centers for classes in Sloyd and cooking.

Five students from the Normal Training class were given diplomas this year. Three of these remain in the home school, one takes charge of one of the State Day Schools and one has private pupils.

This department of the school, inaugurated at the beginning of the school year, provides for the normal training by the oral method, as by law required, of teachers for the State Day Schools, as well as for the city school.

The Association of Parents and Friends of Deaf Children has, during the latter part of the year, held its meetings at the school. Its interest and sympathy has been a source of help and inspiration to the teachers, who feel the beneficial effect of the coöperation of the parents in their work.

In closing this report, permit me to express my sincere thanks to the Board of Education for their interest and generous provision for our needs, as well as to yourself for the interest you have awakened in this phase of school work, and for your earnest support and encouragement.

Respectfully submitted, ELIZABETH VAN ADESTINE, Principal.

School for Deaf, July 1st, 1901.

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Report of the Supervisor of Penmanship.

Detroit, Mich., Jan. 6, 1901.

Superintendent W. C. Martindale:

Dear Sir —In submitting my fourteenth annual report, I have to say that, while the results are not as good as I would like to see, the work of the teachers has been very harmonious and the work of the children has been quite uniform throughout the city.

The teachers in nearly every instance have been careful and painstaking in their own work upon the black-boards endeavoring to teach by example as well as by precept.

We have had to contend with the problem of too much miscellaneous writing, and I am glad to state that many principals are making an effort to do less written work. It would greatly assist our efforts especially in the lower grades, if writing merely to keep children busy could be entirely done away with, as also the writing of words over and over again in studying spelling.

I would suggest that the list of words for the day's lesson be carefully written once and then studied, then the whole list written in the child's best style. I think that repeating the list three times in this way would be found far more beneficial, not only to the writing, but to the spelling as well, than writing each word ten or even twenty times with no regard to the appearance of the writing and with little thought as to the spelling, as is apt to be the case.

We should have longer periods for our writing lessons and the regular writing lesson should be continued through the seventh grade at least.

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During the year I have made over 5,000 visits, visiting every room six times and a part of them seven times.

We have labored faithfully to keep the children in a good position and to prevent backhand writing, but in spite of all our efforts the position and pen-holding are poor and much of our writing is backhand.

Toward the close of the year we tried placing, before the children, on the blackboard, copies which slant to the right of the vertical, giving them a greater contrast between their writing and the copy than the purely vertical copy does. It has worked well. Occasionally one will make his writing slant to the right. I am thoroughly convinced that it is a good preventive of backhand and enables the children to write with more freedom.

We have tried this year the plan of using one copybook the whole year.

The children in a room wrote the upper half of the book through in the first term. When they were promoted they left their books to be used by the class which was to follow them.

This has caused no little dissatisfaction, as most children object to writing in a book that has been partially filled by some one else. In my opinion the book should be completed in one term or the child should take it with him when he is promoted, or he should be permitted to take it home and be supplied with another book.

The proper application of the copy-book is the most difficult problem with which we have to deal.

To give the necessary amount of exercise practice and fill a twenty-four page copy-book, as it should be done, in one term, is too much for the average teacher where only fifteen minutes each day is allowed for that work.

If we do the copy-book work without outside practice it leads to merely printing the copy a certain number of

times, which does not materially benefit the miscellaneous writing.

It is impossible to do good writing with poor ink, and it is very difficult to keep ink in ink wells such as are placed in our school desks. The best of them admit air and dust. The ink evaporates and the dust accumulates; the two forming a scum on the top of the ink which adheres to the pen, and the result is blurred and blotted papers. Ink wells with perfectly airtight stoppers should be provided.

Much of the chalk used during the past year has been of an inferior quality. Especially where slate boards are in use the chalk should be soft and entirely free from grit.

Thanking you for your counsel and support, I am, Yours sincerely,

W. F. LYON,

Supr. of Penmanship, Detroit Public Schools.



D. W. H. MORELAND

COMMISSIONER DEPARTMENT OF PUBLIC WORKS

APPOINTED MAY 4, 1901

TERM EXPIRES JULY 1, 1905

TWENTY-SEVENTH ANNUAL REPORT

OF THE

Department of Public Works

OF THE

CITY OF DETROIT

SHOWING

THE WORK DONE

AND

Receipts and Expenditures for the Fiscal Year Ending
June 30th, 1901



Detroit: The Richmond & Backus Co. 1901

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DEPARTMENT OF PUBLIC WORKS.

Commissioner.

D. W. H. MORELAND. Term expires July 1, 1905.

Officers.

ROBERT Y. OGG	Secretary
STEPHEN A. FERGUSON	Engineer
IAMES C OLDEIFLD	nief Clerk

MEMBERS OF BOARD OF PUBLIC WORKS AND DEPARTMENT OF PUBLIC WORKS.

SINCE ORGANIZATION.

The Board of Public Works was established by an Act of the State Legislature, approved April 29, 1873, and was organized with three members for business March 1 of that year. On May 4, 1901, by virtue of an act of the legislature the board of three members was abolished and a one-man board substituted. The names of members and the years in which they served may be seen by the following table:

YEAR	NAME	
Harvey King	1874, 1875.	
Nicol Mitchell	1874, 1875, 1876, 1877.	
	1874, 1875 <i>;</i> 1876, 1877, 1878.	
Alexander Chapoton	1884, 1885, 1886, 1887.	
Stanley G. Wight	1876.	
William Purcell	1877, 1878, 1879.	
Frederick Ruehle	1878, 1879, 1880, 1881.	
	1879, 1880, 1881, 1882, 1883, 1884.	
William Langley	1885, 1886, 1887, 1888, 1889, 1890.	
Benj. Briscoe	1880, 1881, 1882, 1883.	
John B. Stoutenburg	1882, 1883, 1884, 1885.	
Thomas McGrath	1886, 1887, 1888, 1889.	
James Hanley†	1888, 1889, 1890.	
Michael J. Griffin‡	1890, 1891.	
Jacob Guthard	1890, 1891, 1892, 1893, 1894, 1895, 1896.	
John B. Mulliken**	1891.	
John McVicar***	1891, 1892, 1893, 1894, 1895, 1896, 1897.	
James Dean	1891, 1892, 1893, 1894, 1895.	
D. W. H. Moreland	1896, 1897, 1898, 1899.	
Herman F. Kallman	1897, 1898, 1899, 1900, 1901, ****	
James W. Millen	1898, 1899, 1900, 1901. ****	
Marshall H. Godfrey	1900, 1901. ****	
D. W. H. Moreland	1901.	

^{*} Died in Chicago, June 27, 1890, while in office.

[†] Resigned October 21, 1890, to run for Sheriff.

[‡] Resigned April 80, 1891 to attend to private business.

Appointed to fill out W. H. Langley's unexpired term, and for full term from January, 1868.

^{**} Appointed to fill out James Hanley's unexpired term.

^{***} Appointed to fill vacancy made by resignation of M. J. Griffin, and for full term from January, 1892.

[§] Appointed to fill vacancy made by resignation of J. B. Mulliken, and for full term from January, 1892.

^{****} Terms expired by virtue of act of Legislature, creating one-man board, and action of Common Council in making appointment of D. W. H. Moreland, May 4, 1901.

CHIEF ACCOUNTANT'S CERTIFICATE.

CHIEF ACCOUNTANT'S OFFICE, DETROIT, June 30, 1901.

This is to certify that I have examined the books and accounts of the Department of Public Works, up to and including June 30, 1901, the last day of the fiscal year. I found everything correct, and the books and accounts kept in a businesslike manner. On August 9 (page 705 of official proceedings) I reported to the Common Council the above facts.

Very respectfully,

DR. FRANCIS J. DUCAT,
Chief Accountant.

DEPARTMENT OF PUBLIC WORKS OFFICE, DETROIT, June 30, 1901.

To the Hon. D. W. H. Moreland,

Commissioner Department of Public Works:

DEAR SIR—I herewith submit a statement showing the receipts and expenditures of the Department of Public Works in its various departments, as well as work done for the fiscal year ending June 30, 1901.

Very respectfully,

Secretary.

TWENTY-SEVENTH ANNUAL REPORT

OF THB

Department of Public Works

OF THE

CITY OF DETROIT

1900-1901

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DEPARTMENT OF PUBLIC WORKS OFFICE, DETROIT, June 30, 1901.

To the Honorable the Common Council:

GENTI, EMEN—The Department of Public Works herewith submits its twenty-seventh annual report, covering the fiscal year ending June 30, 1901.

PREFACE.

This report is largely a record of the work of the old Board of Public Works, which passed into history with the advent of the one-man board. A plain statement of the work accomplished is given, together with cost of the same, supplemented by the condition of the various funds as certified to by the City Accountant.

When the present commissioner assumed charge on May 4. obstacles presented themselves in the shape of several funds that had been exhausted for months, particularly the general road fund, which had been used up by the old board within four months after the fiscal year of July 1st, 1900, had begun, and was carried through with appropriations from the House of Correction fund. A number of bills remained unpaid and they had to be cared for from the new appropriations for the present fiscal year.

The storage yards were in bad condition and a reform was at once instituted by abandoning the lumber yards at Scotten avenue and Bellevue avenue and transferring the material to the Eastern and Western yards. All the materials and machinery used by the department in its outside work are now at the two yards, under the supervision of the yardmasters, and in a more presentable and business-like shape than at any time before.

The White Wing system was also in a demoralized condition, having degenerated in 16 months from an efficient, well equipped, presentable body of men, as organized by Commissioner Moreland, capable of carrying on the work in good shape, to a disorganized crowd, paying little attention to their work and less to their personal appearance. The White Wings were at once reorganized on a business basis and all the undesirable ones weeded out, and the work is now being conducted with old-time vigor, and in such a way that the improvement in the appearance of our streets is decidedly noticeable.



About seven weeks of the old fiscal year remained when the present commissioner took charge. The condition of the general road fund prevented his making any headway in the work of patching or resurfacing of pavements, or in fact any of the work outside of that covered by the road district funds. However, foremen of sidewalk gangs, patching and resurfacing gangs were appointed and an organization perfected for the outside work that was set in motion just as soon as the money allowed for the new fiscal year was available to pay labor and purchase materials.

The preliminaries for the repaving allowed by the Board of Estimates was started before a week of the new administration had passed, and before the fiscal year ending June 30, 1901, closed \$100,000 worth of repaving, about one-third of the total amount allowed, was under way.

Amendments to the city charter were made by the last legislature which affect the department materially. Changes were made whereby the paving and repaving of alleys, as well as the building of lateral sewers, are paid for by bonds in the same manner as the paving of streets, instead of the contractor receiving his money from the Receiver of Taxes as the property owners paid it in to the city. The old system of repairing sidewalks was abandoned and that work is now done at the expense of the city the same as the repairing of pavements. New walks and old walks reconstructed, which are not built by the property owners after receiving notice, are built by the Department, and labor and material paid for from the contingent fund, where the money is returned when paid by property owners to the Receiver. The Water Board Act was amended so that in the tearing up of streets or alleys for the laying of water pipes or repairing the same permits must be obtained from and the work done under the supervision and direction of the Department of Public Works.



Following is the law passed by the last legislature under which the present Department of Public Works was brought into being:

AN ACT

To amend sections one, two, three, four, five, six, seven eight, nine and ten of an Act, entitled "An Act to establish a Department of Public Works in and for the City of Detroit and to repeal all Acts or parts of Acts in conflict therewith," approved February fifteenth, nineteen hundred and one, and to add a new section thereto.

The People of the State of Michigan enact:

Section 1. That an act entitled "An act to establish a department of public works in and for the city of Detroit, and to repeal all acts or parts of acts in conflict therewith," approved February fifteenth, nineteen hundred and one, be mended by amending sections one, two, three, four, five, six, seven, eight, nine and ten and by adding a new section thereto, as follows:

Section 1. There shall be a department in the municipal government of the city of Detroit, to be known as "The department of public works" of the city of Detroit, and the responsible head of said department shall be an officer to be known as "The commissioner of public works."

Section 2. That within five days after this act shall take effect, it shall be the duty of the common council of the city of Detroit, and it is hereby authorized and empowered to appoint a commissioner of public works, having the qualifications of an elector and freeholder of said city, and who shall hold his office from the time of his appointment and qualification under this act as amended, until the first day of July, nineteen hundred and five, and until his successor shall be elected and qualified. At the expiration of said term and each four years thereafter, the mayor of said city shall appoint a suitable person of like qualifications, as commissioner of public works, for the term of four years and until his successor shall be appointed and qualified. The mayor shall appoint a suitable person of like qualifications to fill any vacancy in said office for the remainder of any unexpired term. Before entering upon the duties of his office, the commissioner of public works shall file in the office of the city clerk, his bond in the penal sum of fifty thousand dollars, with two or more responsible sureties. or with a responsible security company as surety, and approved by the city controller, conditioned for the faithful performance of the duties of his office. During sickness, absence or some temporary inability of the commissioner to perform the duties of his office, the secretary of said department, shall perform the duties and have the powers of said commissioner: Provided, That he shall

not have authority to change any general rules or regulations, or to make appointments.

Section 3. The common council may, by a vote of two-thirds of all the members elect, remove from office any commissioner of public works for corrupt or wilful malfeasance, or for wilful neglect of the duties of his office, and in any such case the reason of such removal shall be entered upon the records of the common council with the names and votes of the members voting on the question. Any person so removed shall not be eligible to reappointment to said Provided, however, That no commissioner of public works shall be removed from office by the common council, unless first furnished with a copy of the charges in writing and allowed to be heard in his defense, with the aid of counsel; and for the purpose of determining the truth of any such charges, the common council shall have the power to issue subpoenas, to compel the attendance of witnesses, and the production of papers when necessary, and shall proceed within thirty days after service of a copy of the charges to hear and determine upon the merits of the case. If such officer shall neglect to appear and answer such charges, his failure to do so, without a reasonable excuse therefor, may be deemed good cause for his removal from office.

Section 4. When a commissioner of public works shall have been appointed and qualified as herein provided, it shall be the duty of the superintendent of public works of the city of Detroit to surrender to him possession of the offices occupied by said superintendent of public works, together with all books, records, papers, property and money belonging or appertaining to said department of public works, and from thenceforth the custody and possession of the same shall be vested in the commissioner of public works, acting for and on behalf of the city of Detroit. In case the superintendent of public works shall refuse or neglect to surrender such possession on demand, it shall be the duty of the commissioner of public works to apply to any court of competent jurisdiction for a writ of mandamus to compel the superintendent of public works to surrender such possession to him.

Section 5. From and after the appointment and qualification of a commissioner of public works, under this act, as hereby amended, said commissioner shall have power and authority to establish a system of grades for all streets and alleys and when established, the same shall not be changed without a two-thirds vote of the aldermen elect. He shall likewise have authority to lay out and establish a system of sewers for the entire city to be designated on the general plan of streets and alleys. He shall supervise the grading, paving, repaving and cleaning of streets and alleys and public grounds, the construction, repairing and alterations of public wharves, docks, bridges, culverts, receiving basins, drains,



sewers, walks. cross-walks and all public buildings, the supervision of which shall not be otherwise provided by law, and all moneys for such purposes shall be expended under his supervision, and when done by contract, shall be done under contract and specifications prepared by him, and approved by the common council. He shall advertise for proposals when directed by the common council, or required by the charter of said city for work to be done, or for materials to be furnished by contract, and shall let such contract to the lowest responsible bidder: Provided, He may reject all proposals received. He shall have all the powers, duties and functions heretofore vested in, and exercised by the former board of public works, or the present superintendent of public works, except as herein altered or modified; which said powers, duties and functions shall be vested in and be exercised by the commissioner of public works, and he shall take the place of taid board, and of the superintendent of public works in the municipal government of the city of Detroit.

Section 6. As soon as practicable, after the appointment and qualification of a commissioner of public works, under this act, it shall be his duty to appoint a secretary, of the department of public works, and a city engineer, and such other subordinate officers and employes of the department as the common council of the city heretofore, or may hereafter create and establish by ordinance, resolution or other action of said council. Said secretary and city engineer, with all other officers, clerks, employes of the department, including those now holding office under the board of public works, shall hold office, and their employments be subject to the pleasure of the commissioner of public works, and vacancies may be filled and new appointments may be made by him whenever, in his judgment, the public service may require.

Section 7. The commisioner of public works, the secretary and city engineer, and all officers, clerks and employes of the department shall be ineligible, while they hold their respective offices or employments, to any office elected by the people, and if nominated for any such office and they do not publicly decline the nomination within ten days succeeding the same, they shall be deemed to have resigned and to have vacated their office, and they shall not receive any salary or compensation from the city. The acceptance of any other appointive office by any incumbent shall vacate said office of commissioner.

Section 8. The commissioner of public works shall have no power to enter into any contract, for or in behalf of the city of Detroit, without the consent or approval of the common council. No debt or liability of any kind shall be created by or on account of said department during any one fiscal year, in excess of the moneys then in the proper fund thereof, or which may have been authorized to be raised by the common council for the said year. All bills, accounts, and claims of every character against the said department shall, after having been duly



audited by said commissioner and certified by him and the secretary, be transmitted to the city controller, who shall submit the same to the common council with his approval. When said bills, accounts and claims shall have been allowed. by the common council, the controller shall draw his warrant or warrants on the city treasurer in payment therefor: Provided, however, That no bill, account or claim against said department shall be audited by the commissioner, unless it shall be accompanied by an affidavit of the person rendering it, that he verily believes the services or property therein charged have been actually performed, or delivered to the city, and that the sums charged therefor, are reasonable and just, and that to the best of his knowledge and belief no offset exists or payment has been made on account thereof, except such as are included or referred to in such bills, account or claim. All pay rolls shall be certified by said commissioner and secretary, and shall be approved by the common council and be delivered to the city controller, who shall draw his warrants for the payment thereof and deliver the same to the city treasurer, together with said pay roll, and said city treasurer shall pay the amounts mentioned in said pay roll, to the persons entitled thereto.

Section 9. The commissioner of public works shall receive from the city an annual salary of five thousand dollars, the secretary of the department shall receive an annual salary of two thousand five hundred dollars, and the city engineer shall receive an annual salary of three thousand dollars, each payable in semi-monthly installments; and the other officers, clerks and employes of the department shall receive such salary or compensation as the common council has prescribed, or may hereafter prescribe; all to be paid on pay rolls as above provided.

Section 10. The office of the superintendent of public works of the city of Detroit is abolished from and stigg the appointment and qualification of a commissioner of public works provided by this act.

Section 11. The commissioner of public works shall annually before the first day of February, file with the controller an estimate of the amount of money required to be raised by taxation for the next fiscal year, and for the general sewer and road funds, district road fund, public works general fund, and for such other funds and purposes as may be, in his judgment required for his department, or as may be ordered or established by the common council. Said estimate shall, so far as practicable, be made in detail, and so much of the total estimate for each of said funds or purposes, as shall be approved by the common council, shall be raised by general taxation: Provided, That the kind of material with which the streets shall be repaved shall be determined by said commissioner. The commissioner of public works shall be a member of the board of estimates of said city.

This act is ordered to take immediate effect.



PAVING AND REPAVING.

Twenty-Six and One-Half Miles Accomplished—Cost and Character of Work.

During the fiscal year 1900-1901, which carries up to July 1, twenty-six and a half miles of paving and repaving was accomplished, as compared with nineteen and one-third miles the preceding fiscal year. As usual, cedar block leads with 8.960 miles of new work and 11.860 miles of repaying. There was one-third of a mile of new brick paying laid and 1.410 miles of brick repaying. Asphalt—which had been completely shut out during the paving season of 1800 on account of high prices—shows up with 1.325 miles of new work and 1.290 miles of repaying. The paying of Boston Boulevard with macadam was an innovation, but was done at the request of the company owning all the abutting property on the street. Five alleys were modernized with vitrified brick on concrete foundation—one new and four repaved. The prices for work differed very little from the preceding fiscal year, labor and material remaining at about the same rate. Cedar paving cost two cents per yard more and brick three cents per yard more than the season of 1899. The total mileage of paved streets in the city now foots up 290.

THE REPAVING FUND

The expenditures from the Repaving Fund for the fiscal year 1900-1901 were as follows:

Orleans street, Gratiot to Alfred, final estimate	2,212	29
Humboldt avenue, Grand River to McGraw, first and final estimate	7,676	11
Dix avenue, Boulevard to Clark, first to final estimate	11,263	69
Jos. Campau avenue, Jefferson to Monroe, first to final estimate	6,555	81
Sixth street, Pine to Selden, first to final estimate	10,386	93
Ash street, Trumbull to Sixteenth, first to final estimate	11,155	71
Harrison avenue, Michigan to Grand River, first to final estimate	17,357	73
Ran lolph street, Grat ot to A lams, first to final estimate	4,729	95

•		
Witherell street, Adams to Montcalm, first to final estimate	4,552	99
Canfield street, Woodward to Second, second to final estimate	7,163	46
John R street, Cross to Adelaide, first to final estimate	13,138	81
Jefferson avenue, to Boulevard, 207 ft. E. of Baldwin, first to final estimate	18,658	67
Hancock avenue, Woodward to Greenwood, first to final estimate	9,705	09
Canfield avenue, McDougall to Mt. Elliott, first to final estimate	9,237	39
Gratiot avenue, Bellevue to Sheridan, first and final estimate	10,445	78
Park place, State to Clifford, first to final estimate	5,983	88
Russell street, Sec. 1, Wabash R. R. to Boulevard, first to final estimate.	7,522	21
Russell street, Sec. 2, D. & B.C.R.R. to Clay avenue, first to final estimate	7,049	17
Seventeenth street, Michigan to Myrtle, first to final estimate	10,375	51
Bagley avenue, Park to Cass, first to final estimate	7,538	12
Third avenue, Canfield to Merrick, first to final estimate	8,674	90
Labrosse street, Trumbull to Twelfth, first and final estimate	4,810	5 0
Perry street, Trumbull to National, first and final estimate	2,095	17
Mt. Elliott avenue, Water to Mack, first to final estimate	7,859	65
Piquette avenue, Woodward to Brush, first to final estimate	9,336	
Rose street, Eighteenth to Twentieth, first and final estimate	2,126	52
St. Antoine street, Canfield to Farnsworth, first to final estimate	6,693	38
Scotten avenue, Michigan to Buchanan, first to final estimate	9,312	
Champlain street, Mt. Elliott to Boulevard, first to final estimate	6,128	45
Grandy avenue, Gratiot to Forest, first to final estimate	14,226	
Sycamore street Grand River to National, first and final estimate	2,992	78
Watson street, Woodward to Brush, first to final estimate	4,604	75
St. Antoine street, High to Division, first to final estimate	4,051	47
John R street, Woodward to Cross, first and final estimate	9,646	90
Fort street, Elmwood to Mt. Elliott, first to final estimate	5,016	00
Congress street, Elmwood to Mt. Elliott, first to final estimate	5,947	35
Porter street, Twelfth to Thirteenth, first and final estimate	1,125	30
Eighteenth street, McGraw to Boulevard, first and final estimate	6,656	82
Fourteenth street, Fort to Porter, first to final estimate	7,118	85
Field avenue, Champlain to Kercheval, first to final estimate	8,859	22
Kirby avenue, Woodward to John R, first and final estimate	3,686	55
Elizabeth street, Brush to Beaubien, first and final estimate	1,799	24
Warren avenue, Woodward to Hastings, first to final estimate	8,075	58
Atwater street, Rivard to Riopelle, first to final estimate	3,847	28
McDougal avenue, Gratiot to Canfield, first to final estimate	9,333	16
Crushed stone	781	00
Dressing stone	721	81
Extras on contracts	1,237	26
Pay roll of inspectors	9,213	75
Printing and advertising	117	20

\$348,799 30

On the following pages are tables showing the paving and repaving accomplished during the fiscal year:

STREETS PAVED DURING

STREET OR AVENUE PAVED	Contractor	Style of Pavement	Length, Feet	Width, Feet	Excava- tion, Cubic Yards
Clark, from Dix to Michigan	James Grant	Cedaronconcrete	4,321 46	30	7,458
Gratiot, Sec. 1, from Sheridan to Newland on the north	Archibald Grant		3.814 76	*46	5,591
Graviot, Sec. 2, from Newland on the north to the City limits	Archibald Grant		3,528 84	*46	6,202
Euclid, from Woodward to Hamilton Boulevard	Arthur C. Lloyd		2.658 80	26	4,030
Warren (widening), Woodward to Beaubien	Ino. A Mercier		1,675 70	3	281.18
Alfred, from Dequindre to Du-	f.rchibald Gran	!	1,087 00	26	1,690
Van Dyke, from Champlain to Durand	Geo. E. Currie		2,409 36	28	5,000
Sixth, from Selden to Forest	Geo E. Currie		2,353 04	26	2,908
McGraw, from Sixteenth to Grand River	Iulius Porath		2,857 48	26	3.130
Porter, from Vinewood to Hub-	Ino. A. Mercier		422 53	*38	432
Harper, from Twelfth to Six- teenth	Arthur C. Lloyd		1.712 65	26	2,735
Field, from Mack to Gratiot	Archibald Grant		3.698 83	28	6,223
Maybury Grand, from Grand			•	_	
Trunk R. R. to Grand River Baltimore, from Forsyth to	Arthur C. Lloyd		3,566 07	26	5,490
Moran from Medbury to Mil-	Arthur C. Llovd	••	389 48	26	480
wankee	Jno. A. Mercier	*•	2,013 50	26	8,148
Rivard, from Canfield to Harper	Henry Merdian Co		4,508 18	26	6,508
River, from Porter Farm to Clark	Henry Frederick	••	2,676 94	30	3,060
Van Dyke, from Durand to	Geo. E. Currie		3.226 63	28	6,118
Garfield, from St. Antoine to	Julius Porath		604 19	26	821
		. !	47.815 50	"	71,300.18

8.96 miles. \$1.54 average gross cost per sq. yd. \$1.02 net

Bagley (widening), from Park	,.	i	ŀ	1
to Cass	Jno.M.Loughlin&Co. Brick on concrete	205 00	30	1,461.98
ft. west of Second	Jno. A. Mercier	585 82	26	227
Amsterdam, from Cass to Second.	Jno. A. Mercier	862 20	26	733
	, .	1,603 02		2,426 98

^{*} Less double tracks.

^{.903} miles. \$1.94 average gross cost per sq. yd. \$1.52 " net "...

THE FISCAL YEAR 1900-1901.

Curbstone, Lineal Feet	Paving, Square Yards	Estimated Inspection and Advertis- ing	Cost of Paving Assessmint District	Cost of Paving Intersec- tions	Total Cost	Contract Confirmed	Pavement Accepted
8,293 08	14,415 50	\$473 00	\$19,928 58	\$ 987 95	\$21,339 48	Nov. 21, 1899	Aug. 14, 1900
6,690 24	12.987 12	43 0 00	15,054 89	3,369 08	18,853 97	Nov. 8, 1899	Sept. 11, 1900
6,414 43	11,996 72	401 00	14,948 52	2,372 95	17,722 47	Nov. 8, 1899	Oct. 9, 1900
5,167-60	7.613 53 Asphalt 62 55	347 00	11,343 61	671 86	12,362 47	June 26, 1900	Sept. 18, 1900
44 70	557 87	26 00	559 72	85 12	670 84	July 10, 1900	Oct. 9, 1900
2.046 47	3,143 65	165 00	4,680-05	381 38	5,226 43	Aug. 1, 1900	Sept. 25, 1900
4,607 71	7,496 63	340 00	10,627 75	884-36	11,852 11	Aug. 14, 1900	Oct. 2, 1900
3.855 08	5,947 79	278 00	8,903 91	1,058 71	10,240 62	Aug. 21, 1900	Oct. 9, 1900
4,272 38	6,841-84	314 00	8,932 18	1,539 12	10,785 30	Aug. 21, 1900	Oct. 23, 1900
758-06	1.084 83	83 00	1,563 75	217 60	1,864-35	Aug. 21, 1900	Oct. 9, 1900
2,989-89	4.958 90	239 00	6,009 69	1,543 61	7,792 30	Aug. 21, 1900	Oct. 9, 1900
7,192 44	11,522 78	501 00	16.622 92	760 97	17,884 89	Aug. 28, 1900	Nov. 13, 1900
6,633 89	10.389 51	456 00	14.125 01	1,488 02	16,069 03	Aug. 28, 1900	Nov. 27, 1900
727 40	1.126 87	85 00	1,495 59	222 63	1,803 22	Sept. 18, 1900	Oct. 30, 1900
3,514 84	5,816 79	273 00	7.251 01	1,571 60	9,095 61	Sept. 18, 1900	Oct. 30, 1900
8,756 17	13,920 24	597-00	18,409 09	8,083 83	22,089 92	Sept. 18, 1900	Nov. 7, 1900
4,907 75	8,924 54	398-00	12.111 21	705 83	13,215 04	Sept. 25, 1900	Nov. 27, 1900
6,317 20	10,043 47	442 00	14.801 07	493 81	15,736 88	Sept. 25, 1900	Nov. 13, 1900
1.153 38	1,754 98	110 00	2,579 35	147 87	2,887 22	Oct. 2, 1900	Nov. 13, 1900
84,342 71	140,605 61	\$5,958 00	\$189,947 85	\$21,536 30	\$217.442 15		

			1					
137 30	3,089-85	\$124 00	\$5,203 46	\$424 70	\$5,752 16	May	15, 1900	Oct. 30, 1900
390 00	617 48	68 00	1,129 14	94 88	1,292 02	Oct.	9, 1900	Nov. 13, 1900
993 63	1.625 83	103 00	2,819 11	423 76	8,845 87	Oct.	9, 1900	Nov. 13, 1900
1,520 93	5,333 16	\$295 00	\$9,151 71	\$943-34	\$10,390 05			

STREETS PAVED DURING

STREET OR AVENUE PAVED	Contractor	Style of Pavement	Length, Feet	Width, Feet	Excava- tion, Cubic Yards
Grummond, from Woodward to Hamilton Boulevard	James Hanley	Asphalt on concr.	2,650 68	24	3,817
Antoinette, from Cass to Second	•		2,662 99 583 28	26 26	3,828 546
Ferry, from Woodward to Cass	Amer.Contracting Co.		524 67	26	674
Kirby, from Woodward to John	Amer.ContractingCo.		625 05	26	999
			6,996 62		9,864

1.825 miles. \$2.76 average gross cost per sq. yd. \$2.05 net

Boston Boulevard, from Woodward to Brush	Thos. J. Kennedy Macadam	3,380 00 (30)	9,112

.84 miles. \$1.65 average gross cost per sq. yd. \$1.14 net

THE FISCAL YEAR 1900-1901 - Continued.

Curbstone, Lineal Feet	Paving, Square Yards	Estimated Inspection and Advertis- ing	Cost of Paving Assessm'nt District	Cost of Paving Intersec- tions	Total Cost	Contract Confirmed	Pavement Accepted
5,157 25	7,821 12	\$259 00	\$19,545 01	\$1,812 71	\$ 21,616 72	Feb. 27, 1900	Aug. 28, 1900
5,265 98	7,773 79	352 00	18,984 59	552 81	19,838 90	Aug. 7, 1900	Oct. 2, 1900
954 57	1,689 69	107 00	3,427 12	756 34	4,290 46	Aug. 28, 1900	Oct. 2, 1900
1,079 04	1,608 61	104 00	3.811 12	297 23	4,212 85	Aug. 28, 1900	Oct. 9, 1500
1,206 04	1.815 31	113 00	4.373 21	256 10	4,742 81	Aug. 28, 1900	Oct. 16, 1900
13 662 88	20,208 52	\$985 00	\$50,091 05	\$3,674 69	\$54,700 74		

5,677 00	9,322 22	\$355 00	\$11,969 05	\$ 3 ,092 93	815,416 98	July	5, 1899	July 10, 1900
					l	i		1

STREETS REPAVED DURING

Street or Avenue	Contractor	Style of Pavement	Length Feet	Width, Feet	New Curb Linea Fee
Sixth, from Pine to Selden Joseph Campau, from Jefferson	Henry Frederick & Co.	Cedar on concrite	3,103 00	$(24) \\ (22)$	2,115 10
to Monroe	Winterhalter		1,584/85	30	459 20
Randolph, from Gratiot to		• ••	1,297 80	24	712 10
Ash, from Trumbull to Sixteenth		.,	2,826 30	28	1,193 90
Humboldt, from Grand River to	Julius Porath		1,874 66	26	6 70
Gratiot, from Bellevue to Sheri-	Archibald Grant	" ;	2,630 (0)	₹46	482 50
Harrison, from Michigan to Grand River	Jno A. Mercier		4,828 61	26	498 60
Labrosse, from Trumbull to		1 1	1,357 00	26	
Hancock, from Woodward to Greenwood		1	2,616 40	26	588 50
Canfield, from McDougall to Mt, Elliott		1 !	2,426 00	28	156 90
Seventeenth, from Michigan to Myrtle		İ	2,589 50	30	57 10
Scotten, from Michigan to Bu- chanan, on the west	t ,	1	2,715 20	26	
Eighteenth, from McGraw to	i	!	1.792 00	28	
Third, from Canfield on the east	Ina Malaushin & Co.	i ! .,	2,385 30	132	617 50
to Merrick	1	i e	3.927 00	28	
Grandy, from Gratiot to Forest Field, from Champlain to	•			1	489 40
Perry, from Trumbull to Nation-			2,076 50	32	180 50
St. Antoine, from Capfield to	•	••	585 00	26	
Farnsworth	Henry Merdian Co	.,	2.237 50	180	144 50
watson from Woodward to	E. K. Roberts & Co		1,008 60	28	651 80
Brush	. "		1,279 60	(25) (26)	266 20
the east to Mack	Geo. E. Currie	••	2,718 50	*40	598 10
Champlain, from Mt. El iott to			2,398 60	*34	405 50
Sycamore, from Grand River to National	Jno. A. Mercier	, "	885 20	26	1,598 30
McDougall, from Gratict to Canfield	James Grant		2,426 00	24	
Congress, from Elmwood to Mt. Elliott			1.710 00	180	815 90
Porter, from Twelfth to Thir-		.,	362 70	126	
Warren, from Woodward to to Hastings (w)			2.760 20	(27)	663 50
Rose from Eighteenth to Twen-	1	.,	686 50	(24)	
Fourteenth, from Fort to 374 1/2 ft, north of Porter	I .		1.826 30	30	
Fort, from Elmwood to Mt.	•	1		" ,	800.10
Elliott	Henry Merdian Co		1,718 10	+28	600 10
			62,655 92		13,331 90

^{*-}Less double tracks.
† -Less single tracks.
w- For widening, see paved streets.



^{11.86} miles. \$1.21 average gross cost per square yard. \$1.00 average net cost per square yard.

THE FISCAL YEAR, 1900-1901

Paving Square Yards Final Measure- ment	Contract Price	Cost of Additional Paving	Total Cost	Paid on Account	Contract Confirmed	Pavement Accepted
7,780 31	\$10,223 10	\$163 83	\$10.386 93	All Paid	May 8, 1900	July 24, 1900
5,133 94	6,603 70		6,555-81	••	May 8, 1900	July 17, 1900
3,479 13	4,797 66		4,729 95	••	May 8, 1900	July 24, 1900
8,809 44	11,120 94	31 77	11,155 71		May 8, 1900	July 24, 1900
6,532 71	7,764 07		7,676 11	••	May 8, 1900	July 10, 1900
9,088 11	10,520 29		10,445 78		May 15, 1900	July 17, 1900
14,003 09	17,382 53		17.357 73	••	May 15, 1900	July 24, 1900
3,921 94	4,915 65		4,810 50		May 22, 1900	Aug. 1, 1900
7,798 19	10,058 82		9,705 09	••	May 22, 1900	July 24, 1900
7,553 18	9,246 73		9,237 39	• •	May 22, 1900	July 17, 1900
8,639 87	10,424 78		10,375 51	4.	May 29, 1900	Aug. 28, 1900
7,851 00	9,319 41		9,312 07		June 5, 1900	Sept. 18, 1900
5,575 11	6,695 91		6,656 82	••	June 5, 1900	Sept. 11, 1900
7.140 94	8,914 27		8,674 90		June 5, 1900	Nov. 7, 1900
12,242 20	14,245 47		14,226 21		June 5, 1900	Sept. 18, 1900
7.337 88	8.864 66		8,859 22	••	June 5, 1900	Dec. 18, 190
1.693 44	2.144 35		2,095 17	••	June 5, 1900	Aug. 1, 190
5,850 14	7,129 13		6,693 38		June 26, 1900	Sept. 18, 190
3,133 24	4,002 32	49 15	4,051 47		June 26, 1900	Sept. 18, 190
3.633 84	4,727 89		4,604 75		June 28, 1900	Sept. 11, 190
7,410 08	7,639 35	220 27	7,859 65		July 3, 1900	Aug. 28, 190
5,084 49	6.043 70	81 75	6,128 45		July 3, 1900	Sept. 4, 190
2,572 46	3,021 68		2,992 78		July 3, 1900	Aug. 28, 1900
7,550 50	9.330 54	2 62	9,333 16		July 3, 1900	Dec. 11, 190
4,739 96	5,865 51	81 84	5,947 85		July 10, 1900	Oct. 16, 190
917 81	1,340 19		1,125 30		July 10, 1900	Sept. 11, 190
6,450 20	8.446 16		8.075 53		July 10, 1900	Oct. 9, 190
1,835 75	2.160 03		2.126 52	••	July 10, 1900	Aug. 7, 190
6,098 48	7,118 61		7,113 85	••	July 10, 1900	Sept. 25, 190
4,878 75	4,953 26	62 74	5,016 00		Aug. 7, 1900	Oct. 16, 1900
	\$225,020 74		\$223,329 09		.iug. 7, 1000	Jet. 10, 180

STREETS REPAVED DURING THE

STREET OR AVENUE	Contractor	Style of Pavement	Length Feet	Width. Feet	New Curb Lineal Feet
Witherell, from Adams to Montcalm	Liphardt & Winterhalter	Brick on Concr'te	733 60	26	168 70
Dix, from Boulevard to Clark	Wm. Lappin		1,940 30	*46	560 40
Bagley, from Park to Cass (w)	Jno. McLoughlin & Co.		862 20	40	571 50
Russell, Sec. 1, from Wabash Railway to the Boulevard	Lennane Bros		1,271 00	30	808 50
Russell, Sec. 2, from D. and B. C. Railroad to Clay	**	,	1,260 80	30	260 00
Park Place, east and west, from State to Clifford	Geo. E. Currie		1,071 00	(25) (30)	825 60
Elizabeth, from Brush to Beau-	Jno. A. Mercier	!	328 05	27	
	•		7,466 95		3,194 70

1.41 miles.\$1.67 average gross cost per square yard.1.45 average net cost per square yard.

*-Less double tracks.

						-
John R, from end of circle S. E. of Cross to Adelaide	James Hanley	Asphalt on concr.	1,923 70	26	1,545	80
Canfield, from Woodward to Second	44	"	1,332 60	(30) (25)	713	10
Jefferson, from Boulevard to 207 _ft. east of Baldwin	**		1,595 00	*60	2,152	70
Piquette, from Woodward to B. ush	**		1,384 70	26	451	30
Kirby, from Woodward to Cass	Am. Contracting Co		584 00	26	221	20
			6,820 00		5.0%4	10

1.29 miles.

\$2.13 average gross cost per square yard.

1.95 average net cost per square yard.

*-Less double tracks.

John R. from Woodward to end of circle S. E. cor. Cross	Lennane	Bros	Asphalt block on concrete	1,096 20	26	687 50
•						

.207 miles. \$2.52 average gross cost per square yard. 2.31 average net cost per square yard.

	anite block 892 20	32	844 20
--	--------------------	----	--------

^{.16%} miles. \$1.21 average gross cost per square yard. 94 average net cost per square yard.

a-Granite furnished by City and hauled by contractor.

THE FISCAL YEAR ENDING 1900-1901.—Continued.

Paving Square Yards Final Measure- ment	Contract Price	Cost of Additional Paving	Total Cost	Paid on Account	Contract Confirmed	Pavement Accepted
2,558 43	\$4,665 84	ļ	\$4,552 99	All Paid	May 8. 1900	July 10, 1900
6,918 92	11,268 59		11,263 69		May 8, 1900	Aug. 1, 1900
4,524 78	8,105 09		7,538 12		May 15, 1900	Oct. 30, 1900
4,570 02	7,467 02	\$55 19	7,522 21		May 15, 1900	July 24, 1900
4,414 20	7,208 58		7,049 17	••	May 15, 1900	Aug. 7, 1900
8,235 83	5,744 60	239 23	5,983 83	••	June 26, 1900	Aug. 14, 1900
993 74	1,770 09	29 15	1.799 24	••	Aug. 1, 1900	Sept. 18, 1900
27,210 92	\$46,229 76	\$823 57	\$45,709 25			

	1		1 1		!	
6,404 70	\$13,526 69		\$13,138 81	All Paid	May 1, 1900	July 24, 1900
4,662 38	9,414 67	\$248 79	9,663 46	**	May 1, 1900	July 24, 1900
7,998 74 Brk. 404 19)	17,798 86	859 81	18,658 67	••	May 15, 1900	Oct. 23, 1900
4,358 63	9 448 26		9,336 03	••	May 15, 1900	Aug. 21, 1900
1,688 89	3,785 15		3.686 55	.,	July 24, 1900	Sept. 18, 1900
25,515 53	\$53,973 63	\$1.108 60	\$54,483 52			

3,825 63	\$9,854-29		\$9,846 90	All Paid	July 24, 1900	Sept. 4, 1900
						
A 3,168 00	\$3,901 59		\$3,847 23	All Paid	Aug. 1, 1900	Nov. 7, 1900

ALLEYS PAVED DURING THE

Boundaries	Contractor	Style of Pavement	Length, Feet	Width, feet	Excava- tion, Cubic Yards
No. 36—The alley betw. Larned and Congress, west of Brush	Geo. W. Winterhalter	Brick on Concr.	86 44	20	89 00

.016 miles \$2.90 average gross cost per sq. yd. \$2.00 net

ALLEYS REPAVED DURING THE

Boundaries	Contractor	Style of Pavement	Length, Feet	Width, feet	Excava- tion, Cubic Yards
No. 28 -The alley west of Griswold bet, Jefferson and Woodbridge	Henry Merdian	Brick on Concr.	140 20	20	126 00
bounded by Randolph, Brush, Monroe and Macomb	Jno. McLoughlin & Co.		361 80	20	242 00
No. 30 — The alley in block bounded by Farrar, Miami, Gratiot and Wilcox	J. A. Mercier		423 40	20	228 00
bounded by Bates, Randolph, Jefferson and Larned			421 00	20	258 00
	_		1,846 40	-	%49 00

.255 miles. \$2.15 average gross cost per sq. yd. \$1 ×1 net "..."

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FISCAL YEAR 1900-1901

Paving. Square Yards	Estimated Inspection and Advertis- ing	Cost of Paving Assessm't District	Cost of Paving Intersec- tions	Total Cost	Contract Confirmed	Pavement Accepted
126 89	\$46 00	\$322 26		\$363 28	Oct. 9, 1900	Nov. 13, 1900

FISCAL YEAR 1900-1901

Paving, Square Yards	Estimated Inspection and Advertis- ing	Cost of Paving Assessm't District	Cost of Paving Intersec- tions	Total Cost	Contract Confirmed	Pavement Accepted
287 95	\$ 52 00	\$ 476 28	\$ 47 46	\$ 575 69	Sept. 5, 1899	Dec. 4, 1900
744 85	71 00	1,319 50	87 25	1,477 75	June 26, 1900	Nov. 20, 1900
883 93	78 00	1,704 64	139 48	1,922 12	Aug. 14, 1900	Sept 25, 1900
852 92	75 00	1,867 70	44 15	1,986 85	.Sept. 25, 1900	Oct. 30, 1900
2.769 15	\$278 00	\$5,368 07	\$318 34	\$5,962 41		

THE YEAR'S PAVING AND COST

Following is a summary of the amount of paving and repaving accomplished during the fiscal year, showing the mileage of each kind of material laid and the grand total. The second table gives the gross and net cost per square yard and makes a comparison with the prices of the preceding year:

Miles of Work

	Miles
Cedar on concrete (paving)	8.960
Cedar on concrete (repaving)	11.860
Brick on concrete (paving)	.303
Brick on concrete (repaving)	1.410
Asphalt on concrete (paving)	1.325
Asphalt on concrete (repaving)	1.290
Asphalt block on concrete (repaving)	.207
Granite on concrete (repaying)	.168
Macadam (special)	.640
	26.163
Brick on concrete, alleys (paving)	.016
Brick on concrete, alleys (repaving)	.255
Total	26.434

Cost of Work

	1899-1900		1900-	1901
	Gross	Net	Gross	Net
Cedar on concrete (paving)	\$1.52	\$.99	\$1.54	\$1.02
Cedar on concrete (repaving)	1.18	.98	1.21	1.00
Brick on concrete (paving)			1.94	1.52
Brick on concrete (repaving)	1.64	1.11	1.67	1.45
Asphalt on concrete (paving)			2.76	2.05
Asphalt on concrete (repaving)			2.13	1.95
Asphalt block on con'te (repaving)			2.52	2.31
*Granite on concrete (repaving).			1.21	.94
Macadam (special)	-		1.65	1.14

^{*}Granite furnished by City.

TOTAL PAVING IN CITY TO JULY 1, 1901.

	Lineal Fect	Miles	City Square Yards	Street Railways Square Yards
Cedar on concrete	626,718 35	118 69671	1,898,789 81	299,170 16
Cedar on plank	242,858 52	45 99593	708,508 22	
Cedar on sand	261,246 92	49 47858	769,951 98	11,898 04
Cedar on sand, stone gutters	44,717 71	8 46926	136,287 89	
Brick on concrete	181,285 84	24 86518	485,687 85	141,028 72
Sheet asphalt on concrete	127,217 09	24 09416	521,850 61	25,498 45
Block asphalt on concrete	1,557 85	0 29605	5,821 63	772 33
Granite on concrete	10,799 70	2 04640	28,706 77	15,245 00
Coble on concrete	2,999 90	1 13684	21,217 78	
Medina on concrete	6,412 05	1 21440	22,843 67	1,690 00
Stone on sand	4,179 76	0 79162	13,745 99	1,116 %
Silica Barytic	1,058 10	0 30040	8,147 19	
Macadam	8,843 74	0 12798	10,661 91	
Total	1,487.840 08	278 00000	4.621.721 20	495,919 35

Boulevard paving, about 12 miles of macadam, not included in above.

PUBLIC AND LATERAL SEWERS.

With the exception of the work in State street, from Griswold street to Cass street, all the public sewers constructed during the fiscal year were on the east side of the city. The public sewers built footed up a fraction over three miles and the laterals eight and one-quarter miles. The total mileage of sewers in the city is 164 of publics or trunk sewers and 327 of laterals or alley sewers.

Following are the expenditures in detail:

GENERAL SEWER WORK, ETC.

Labor building receiving basins\$	9,441	24		
Labor cleaning receiving basins	461	69		
Stone receiving basins, cost of	3,313	37		
Labor repairing and cleaning sewers	8,788	33		
Labor making sewer connections	3,648	25		
Sewer pipe	5,659	87		
Sewer grates, manhole covers, etc	2,510	43		
Use of team for City Engineer	520	5 0		
Tools and repairs to tools	442	92		
Printing and advertising	272	27		
Brick	117	00		
Car fare, etc	524	40		
Hardware	15	20		
Lumber	17	34		
Oil, wicks, etc	26	63		
Stakes for engineers	51	12		
Stationery, maps, etc.	304	81		
Rod man's salary	732	52		
			\$ 36,847	7 89
SEWER ARMS, REFUNDS AND EXTRAS				
Sewer arm assessments	6,114	31		
Extras on sewer contracts	1,184	57		
Assessments refunded	322	34		

BOARD OF PUBLIC WORKS.

CEMENT, INSPECTION, ETC.

Cement for public and lateral sewers 9,141 29	
Inspection of cement and labor handling	
Inspection of public and lateral sewers 9,293 25	
Miscellaneous expenditures	
***************************************	\$ 20,228 48
PUBLIC SEWER CONTRACTS.	
Mack avenue, Sec. 1	
Mack avenue, Sec. 2	
Dubois street, fifth to final estimate	
Morrow street, Sec. 1, first to final estimate	
Cameron avenue, Sec. 3, first to final estimate 4,738 22	
Van Dyke avenue, Sec. 7, first to final estimate 6,018 11	
Dubois street, Sec. 2 (paid on estimates, not yet accepted	
by City)	
Lat. sewer in alley bet. First and Cass, Fort and Lafayette 840 00	
Gratiot avenue, Sec. 2	
State street, Griswold to Cass (pd on estimates) 3,416 00	
Lothrop avenue, Sec. 3	
Lothrop avenue, Sec. 4	
Maple street (not yet accepted, paid on estimates) 3,497 00	
Gratiot avenue, between Farmer and Farrar 564 60	
Repairing Campau street outlet and dock	\$ 74,700 82
	\$ 139,398 41

Following are complete tables of lateral and public sewers, showing location, contractor, length and cost:

PUBLIC SEWERS BUILT DURING

				Manhole Covers			
LOCATION	Contractor	Length Lineal Ft.	Contract Cost	No.	Cost Ea.	Lot Cost	
Mack avenue. Sec. 1, from Van Dyke to Kercheval	W. H. Whittaker	801	\$ 948 00	2	\$4 65	\$ 9 30	
and Holcomb avenues Dubois street outlet and sewer from dock line to north line of Larned	Liphardt & Winterhalter	1,162	1,620 00	8	4 65	18 95	
Morrow street, Sec. 1, from north	John Wagner	1,906	84,500 00	8	4 65	87 20	
line of Clay avenue to north line of alley north of same	Langley & Jeynes	210	777 00	 	' I		
west to south line of Holbrook avenue	John Jeynes	1,353 20	4,788 22	5	4 65	28 25	
of Granger to north line of Lambert on the east, 692 lineal feet Dubois street, Sec. 2, from north	John A. Mercier	1,560	6,009 40	5	4 65	28 25	
line of Larned street to north line of Maple street	John Wagner	3,115	29,631 00	7	4 65	82 55	
to Crane avenue	John Wagner	1,121	2,242 00	2	4 65	9 30	
State street, Griswold to Cass street Lothrop avenue, Sec. 8, from Hamilton Boulevard to north line of	James Grant	1,120	8,510 00	3	4 65	18 95	
Lothrop avenue in center of Green- field avenue, extended	Julius Porath	1,893	5,086 94	4	7 02	28 08	
to north line of Seward avenue	Julius Porath	1,496	5,390 80	4	7 02	28 08	
Maple street from St. Aubin avenue to Chene street	Langley & Jeynes	994	8,517 00	2	7 02	14 04	
Gratiot avenue, between Farmer and Farrar streets	James Grant	288	562 60	1		7 02	
		16,464. ₁ 200	\$98,507.98	46		\$239 97	

FISCAL YEAR 1900-1901.

Ce	ement		į							
lo. Bbls.	Cost	:	Inspect	ion	Total Cost					
14	\$ 7	70	\$ 52	50	\$ 1,017 50					
23	. 12	65	77	00	1,728 60					
4,929	2,710	95	1,391	25	15,639 40					
100	55	00	45	50	877 50					
609	384	95	336	00	5,427 42					
8551/2	470	52	378	00	6,881 17					
3,92854	2,160	68	1,366	75		*Paid	on e	estimates :	\$27.424	00
80	16	50	112	00		*Paid	on	estimates	2,142	90
475	261	25	323	75		*Paid	on	estimates	3,416	00
801 1/2	601	13	334	25	6,030 40					
897	672	75	344	75	6,436 39					
500	875	00	406	00		*Paid	on	estimates	\$3,497	00
431/2	82	63	42	00		*Paid	on	estimates	514	60
13,206	\$7,711	71	\$5,209	75	\$44,083 37					

^{*}Not accepted by City at end of fiscal year.

LATERAL SEWERS CONSTRUCTED

No.	ALLEYS - BETWEEN WHAT STREETS LOCATED	Contractor
1072	In alleys between Wildemere avenue and Eighteenth street, the Boulevard and the city limits	Wm. Porath
1075	In the south side of Hamlin avenue, between Beaubien and St. Antoine streets	John Jeynes
1077	In alley between Craig avenue, Collins street, Trombiy and Milwaukee avenues	Julius Porath
1073	In alley between the Boulevard and Craig avenue. Trombly and Milwaukee avenues	Julius Porath
1079	In alleys between Helen avenue, Frontenac Boulevard, Lambert avenue and Hyde street	Thos. G. Whittaker
1080	In alley east of Thirty-first street and south of Michigan avenue	Thos. G. Whittaker
1140	In alley between Bellevue and Concord avenues, north of Canfield avenue	Wm. Porath
1156	In alleys between Artillery and Dragoon avenues, River street and Battery avenue	Ferdinand Poratio
1158	In north side of Gratiot avenue from Harper avenue to 180 feet west	August Koss
1159	In alleys between Chene street and Grandy avenue, Ferry and Palmer avenues	Wm. H. Whittaker
1161	In alleys between Van Dyke and Maxwell avenues, Forest avenue and Willard street	Liphardt & Winterhalter
1162	In alleys between Cameron avenue and Russell street, Haigh and Alger avenues	Wm. II. Whittaker
1165	In alley west of Oakland avenue, between Holbrook and Josephine avenues	Wm. Porath
1106	In alley between Scotten avenue and Campau street, south of Toledo avenue	Wm. Porath
1167	In alleys east of Bellevue and south of Berlin street	Wm. H. Whittaker
1168	In Bellevue avenue between Canfield and Gratiot avenues.	Henry Bloss
1169	In alley between Collins and Dane streets, Moran and Trombly avenues	Wm. Porath
1170	In alley east of Moran street, between Canfield and Garfield avenues	Wm. Porath
1171	In alleys between Welch and Hammond avenues, Stark avenue and Otis street	Wm. II, Whittaker
1172	In alley between Thirty-third and Thirty-second, Horatio and Herbert streets	Wm. II. Whittaker
1173	In alley between Thirty-fourth, Thirty-third, Horatio and Herbert streets	Wm. II, Whittaker
1174	In alley between Cadillac and Hurlbut avenues, from lot 36 to lot 68, north of Kercheval avenue	 Wm. II. Whittaker
1175	In alleys between Seyburn and Van Dyke avenues, Kercheval avenue and Durand street	John G. Affeld & Son

DURING FISCAL YEAR 1900-1901

Length Lineal Feet	Contract Price	Cement	Inspection	Manhole Covers	Costs	Total Cost
1,658	\$2,318 00	\$14 85	\$98 00	\$13 95	\$ 9 60	\$2.454 40
480	478 00	4 13	50 75	4 65	4 80	540 83
727	660 00	6 88	47 25	9 30	10 20	783 63
622	652 00	4 40	57 75	4 65	9 90	728 70
782	783 00	10 45	61 25	18 95	9 30	827 95
214	211 00	6 50	24 50	9 30	1 50	252 80
194	210 00	55	21 00		1 20	282 75
905	639 00	7 15	31 50	18 95	12 00	708 60
191	220 00	3 30	21 00	4 65	1 20	250 15
1,074	1,135 00	14 85	77 00	18 60	13 50	1,258 95
872	1,102 00	12 65	52 50	13 95	11 70	1,192 80
610	563 00	4 40	81 50	4 65	8 70	612 25
187	176 00	2 75	14 00	4 65	8 60	201 00
174	179 00	3 30	21 00	4 63	1 80	209 75
185	205 00	3 30	17 50	4 63	2 10	282 55
328	278 80	8 30	45 50	4 65	69	832 85
706	795 00	8 25	49 00	9 30	14 10	875 65
219	186 00	2 75	17 50	4 65	2 40	213 39
408	284 00	3 30	21 00	4 65	8 10	321 05
670	515 00	3 85	81 50	4 65	12 90	587 90
678	590 00	5 50	35 00	9 30	12 90	652 70
1,550	1,544 00	8 80	91 00	9 30	18 60	1,671 70
601	652 80	7 15	3× 50	9 30	6 60	714 33

LATERAL SEWERS CONSTRUCTED

No.	ALLEYS BETWEEN WHAT STREETS LOCATED	Contractor
1178	In alley between Thirty-second, Thirty-first, Herbert and Devereux	August Koss
1179	In alleys between Crane, Holcomb, Louis and Dumontier avenues	John G. Affeld & Son
1180	In Orchard street, east of Trumbull avenue	George Jeynes
1181	In alleys between the Boulevard, Field, Canfield and Gratiot avenues	John G. Affeld & Son
1182	In the west side of Rivard street, between Palmer and Hendrie avenues	Wm. Porath
1183	In alley east of Campau street, between Wolff and Toledo	John G. Affeld & Son
1184	In alleys between Belvidere, McClellan, Goethe and- Mack avenues	Wm. Porath
1185	In alleys between McClellan and Pennsylvania avenues, Emmons street and Weyers avenue	Wm. Porath
1186	In alley between Collins and Moran streets, Boone street and Piquette avenue	Ferdinand Porath
1187	In alleys between Maxwell, Stephens, Gratiot and Med- bury avenues	W. H. Whittaker
1188	In alley between Campau and Pleasant streets, north of Wabash railroad	Ferdinand Porath
1189	In alley between Collins and Moran streets, Leland street and Alexandrine avenue	W. H. Whittaker
1190	In alley between Collins, Moran, Illinois and Leland streets	W. H. Whittaker
1191	In alleys between Morrow street, St. Aubin avenue, Clay and Marston avenues	Ferdinand Porath
1192	In alley between Concord, Canton, Medbury and Lambert avenues	W. H. Whittaker
1193	In north side of Lysander street, from Sixth street to	John G. Affeld & Son
1194	In alley between Collins and Moran streets, Alexandrine avenue and Superior street	John G. Affeld & Son
1195	In Sixth street, from Lysander street to Forest avenue	John G. Affeld & Son
1196	In alley between Russell and Riopelle streets, Superior street and Willis avenue	John G. Affeld & Son
1197	In alley between Baldwin and Van Dyke avenues, Med- bury avenue and Phelps street	John G. Affeld & Son
1199	In alley between Concord, Canton, Lambert and Harper	John G. Affeld & Son
1200	In alley between First and Cass street, Fort street and Lafayette avenue	John G. Affeld & Son

DURING FISCAL YEAR 1900-1901-(Continued)

Length Lineal Feet	Contract Price	Cement	Inspection	Manhole Covers	Costs	Total Cos
884	\$ 892 00	\$ 7 15	\$ 50 75	\$ 9 30	\$ 13 50	\$ 972 70
1,584	1,761 60	17 05	98 00	18 60	13 80	1,909 05
183	208 00	1 65	17 50		1 20	223 35
1,792	2,580 00	16 50	140 00	18 95	21 90	2,772 35
177	132 00	55	17 50		1 20	151 25
418	318 00	8 30	28 00	4 65	4 50	853 45
964	1,308 00	9 90	87 50	9 30	17 70	1,432 40
964	1,058 00	10 45	59 50	9 30	12 60	1,149 85
708	791 00	8 58	42 00	9 80	14 10	864 93
1,498	1,765 00	16 77	91 00	18 60	23 10	1,914 47
850	289 00	1 65	16 75	4 65	4 50	816 55
437	858 00	8 85	22 75	4 65	6 90	896 15
458	397 00	2 75	21 00	4 65	9 00	484 40
1,059	1,625 00	16 23	84 00	18 60	6 90	1,750 78
856	994 00	6 60	49 00	9 30	10 80	1,069 70
254	223 00	8 80	24 50	4 65	1 20	256 65
287	209 00	3 30	22 75	4 65	4 80	244 50
385	317 00	3 85	85 00	4 65	1 80	362 30
72	59 00	28	7 00	•	1 80	68 08
854	897 00	18 75	68 00	13 95	9 60	997 30
954	1,164 00	9 90	78 50	9 30	18 90	1,275 60
\$20	840 00	11 00	75 25	4 65		930 90

LATERAL SEWERS CONSTRUCTED

No.	Alleys — Between What Streets Located	Contractor
1201	In alley between Cameron, Philadelphia, Russell and Wellington	Thos. G. Whittaker
1202	In alley in block bounded by Boulevard, Field, Gratiot and Theodore	Thos. G. Whittaker
1208	In alley in block bounded by McClellan, Pennsylvania, Dorchester and Legrand	Thos. G. Whittaker
1205	In alleys between Baldwin, Seyburn, Forest and Warren avenues	John G. Affeld & Son
1206	In alley between Livernois and Military avenues, and north of Julia street (extended)	Wm. Porath
1207	In alleys north of Michigan avenue, between Livernois and Military avenues	Wm. Porath
1208	In alleys between Artillery and Dragoon, Cadet and Dix avenues	Wm. Porath
1210	In alleys north of Gratiot avenue, between Hastings and Rivard streets.	Wm. Porath
1211	In alleys between Baldwin and Van Dyke avenues, Granger street and Hendrie avenue	Geo. W. Winterhalter
1212	In alley east of Wabash avenue, north of Piquette avenuc.	John Jeynes
1213	In alleys west of Junction avenue, between Norton and Otis streets	Wm. H. Whittaker
1214	In alley between Brush and Beaubien streets, Palmer and Hendrie avenues	John Jeynes
1216	In alleys between Scotten, LaSalle, Herbert and Warren avenues	Wm. Porath
1217	In Orleans streetif extendedbetween Forest and Hancock avenues	Wm. Porath
1218	In alley between Morrell, Ferdinand, Christiancy and Dix avenues	George Jeynes
8219	In alleys north of Brandon and west of Hubbard avenue.	John G. Affeld & Son
1220	In alley south of Milwaukee avenue, between Sixteenth and Fifteenth streets	John Jeynes
1221	In alley between Helen avenue, the Boulevard, St. Paul	W. H. Whittaker
1222	In alleys between Twenty-third street, Tillman avenuc, Buchanan and Breckenridge streets	W. H. Whittaker
1225	In alley east of Brush street, between Canfield and Garfield avenues	John Jeynes
1228	In alleys between Ellery street, Mt. Elliott avenue. Theodore and Farnsworth streets	John S. Affeld
1229	In alley east of Hobart street, between Stanley avenue and Gage street	John Jeynes
1231	In alley between Concord and Canton avenues, Sylvester and Stuart streets	Wm. Porath

DURING FISCAL YEAR 1900-1901—(Continued)

Length Lineal Feet	Contract Price	Cement	Inspection	Manhole Covers	Costs	Total Cos
590	\$ 498 00	\$8 40	\$ 42 00	\$ 4 65	\$ 8 70	\$ 561 75
357	444 00	7 70	42 00	9 80	5 70	508 70
1,014	1,097 00	13 75	64 75	18 95	11 70	1,201 15
1,476	2,097 00	11 00	108 25	9 30	16 20	2,236 75
655	533 00	6 60	40 25	9 80	9 60	598 75
462	882 00	3 85	28 00	4 65	4 20	372 70
875	561 00	6 05	48 75	9 30	11 40	681 50
578	830 00	8 25	68 00	9 80	3 60	914 15
741	810 00	11 00	64 75	13 95	9 60	909 30
24 8	309 00	3 85	33 25	4 65	3 00	853 75
897	54 2 00	9 90	22 75	13 95	11 10	599 70
333	852 00	8 85	24 50	4 65	3 30	388 30
781	722 00	5 50	40 25	4 65	10 20	782 60
232	180 00	3 30	14 00	4 65	1 80	208 75
389	279 00	4 95	21 00	4 65	7 80	317 40
231	218 00	4 13	21 00	4 65	2 40	250 18
235	898 00	6 05	85 00	4 65	1 80	445 50
900	1,124 00	16. 50	68 00	21 06	6 00	1,280 56
1048	985 00	11 25	61 25	14 04	12 90	1.084 44
61	78 00	8 75	14 00	7 02	1 20	103 97
1022	893 00	21 00	50 75	21 06	15 00	1,000 81
886	519 00	9 75	45 50	14 04	7 50	595 79
502	. 829 00	5 25	48 75	7 02	9 30	394 32
43,736	\$46,630 20	\$496.30	\$3,063 50	\$572 49	\$551 10	\$51,313 59

GENERAL ROAD FUND.

This fund, which stands sponsor for many items, and has always been treated as a lump sum, four months after the fiscal year, July 1. 1900, began, came so nearly being exhausted that it became the subject of an inquiry by the Common Council. After investigation the committee reported that the money had gone undoubtedly for needed improvements, but showed bad business judgment on the part of the Commissioners: Millen, Godfrey and Kallman. up deficiency and carry the work along, the Council voted \$20,000 from the House of Correction Fund, to be transferred to the General Road Fund. Prior to the transfer, two items, one for \$225 to repair bridges on the west side, and \$155.75 for insurance on property in the yards, were also liquidated, and make up the total of \$20,405.75 from the House of Correction Fund. The total amount allowed by the Board of Estimates for the work of the fiscal year was \$219,804, which including the balance carried over from the fund the previous year and receipts shown elsewhere, represent the net receipts as \$339,000.30. The disbursements are shown in detail and amount to \$317,354.82. The balance at the close of the fiscal year was \$21,645.48, accounted for (in the light of the fund being almost depleted before the close of the paving season last fall) by new legislation enacted which provided for a transfer to the General Road Fund of the Repaving Fund and Road District Fund. Using the fund as a lump sum, which had been the custom for years, was abandoned at the beginning of the new fiscal year upon advice of the Corporation Counsel to the estimators, and each of the several items is a distinct fund within itself.

Herewith is given in detail a statement of the disbursements for the fund as well as the receipts.

DISBURSEMENTS.

Repairing asphalt pavements, on contract	84,966	67
Patching asphalt pavements	2,288	12
Labor, repairing brick payements	7.694	22



BOARD OF PUBLIC WORKS.

Labor, repairing cedar block pavements	40,005	32
Labor, repairing stone pavements	4,490	05
Printing and advertising	654	31
Fines and assessments refunded	925	97
Brick for repairing pavements	552	45
Bridge repairs	3,018	67
Painting Bagley fountain	2	25
Paving cement	2,832	11
No. 1 cedar at Eastern yard	23,420	30
No. 2 cedar at Eastern yard	3,443	25
No. 1 cedar at Western yard	14,829	55
No. 2 cedar at Western yard	8,848	50
Labor, cutting cedar at Eastern yard	1,999	02
Labor, cutting cedar at Western yard	646	91
Pay roll, engineers and watchmen of road rollers	1.436	94
Coal and repairs to road rollers	371	65
Grading and repairing Second avenue	1,265	94
Labor, building new wood crosswalks	2,624	89
Labor, repairing wood crosswalks	2,078	99
Labor, building and repairing culverts	124	79
Labor, repairing docks	276	80
Salary of description clerk	1,058	16
Pay roll of superintendent, watchman and laborers, Eastern yard	4,503	67
Pay roll of superintendent, watchman and laborers, Western yard	4,904	35
Horse-drinking fountains	380	00
Labor, putting up fountains	78	00
Repairs to fountains	533	17
Pay roll of superintendents, Central; Eastern and Western districts	4,212	00
Hardware, nails, etc	1,299	16
Labor, putting in new wood intersections	1,712	98
Labor, repairing wood intersections	2,763	
Paving street and alley intersections	30,548	42
Hauling material to and from streets	334	
Stone intersections	3,344	32
Crushed stone	494	
Pay roll, paving inspectors.	5,454	00
Lumber	36,924	91
Repaying fund, loan for Boston Boulevard, November 11, 1899	1,000	
Insurance, expenses of asphalt plant committee and miscellaneous items,	888	15
Oil, waste, etc	150	87
Plumbing	11	90
Paints, etc	218	
Postage, car fare, etc	295	-
Board of horses and repairs for quick repair outfit	455	
Rent of storage yards	354	00
Stone sidewalks	1,993	
Sand and gravel	4,784	73

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Labor, setting stakes	420	00
Pay roll, sidewalk inspector's	7,836	00
Labor, building new wood sidewalks :	1,953	62
Labor, repairing wood sidewalks	6,934	95
Sprinkling streets	1,198	66
Stakes for engineers	48	08
Use of team for engineers	467	50
Street signs and labor putting up	1,249	91
Stationery	574	82
Tools and repairs to same	1,366	64
Pay roll, gas, water and lumber inspectors'	2,182	00
Pay roll, permits and connection inspectors'	10.667	38
Pay roll, cutting stone at Eastern and Western yards	3,763	75
Asphalt plant fund	9,804	82
Road district No. 1	232	20
Road district No. 2	577	62
Road district No. 4	587	01
	317,354	90
		72
•	011,001	
RECEIPTS.	011,001	
RECEIPTS. Balance on hand July 1, 1900	4,772	25
RECEIPTS. Balance on hand July 1, 1900	4,772	25
RECEIPTS. Balance on hand July 1, 1900	4,772	25 00
RECEIPTS. Balance on hand July 1, 1900	4,772 219,804	25 00 85
RECEIPTS. Balance on hand July 1, 1900	4,772 219,804 64,089	25 00 85 75
RECEIPTS. Balance on hand July 1, 1900	4,772 219,804 64,089 20,405	25 00 85 75 97
RECEIPTS. Balance on hand July 1, 1900. Appropriation. Secretary's receipts House of Correction Fund. Sidewalk Assessment.	4,772 219,804 64,089 20,405 1,935 899 4,142	25 00 85 75 97 00
RECEIPTS. Balance on hand July 1, 1900	4,772 219,804 64,089 20,405 1,935 899 4,142	25 00 85 75 97 00
RECEIPTS. Balance on hand July 1, 1900	4,772 219,804 64,089 20,405 1,935 899 4,142	25 00 85 75 97 00 01 77
RECEIPTS. Balance on hand July 1, 1900	4,772 219,804 64,089 20,405 1,935 899 4,142 80	25 00 85 75 97 00 01 77
Balance on hand July 1, 1900. Appropriation. Secretary's receipts House of Correction Fund. Sidewalk Assessment. Charges for advertising and inspection. Charges on paving. City Treasurer, returned as uncalled for. Vacating Beck street. Interest on special assessments. Balance from Repaving Fund.	4,772 219,804 64,089 20,405 1,935 899 4,142 80	25 00 85 75 97 00 01 77 24 02
RECEIPTS. Balance on hand July 1, 1900	3 4,772 219,804 64,089 20,405 1,935 899 4,142 80 202	25 00 85 75 97 00 01 77 24 02 66
Balance on hand July 1, 1900. Appropriation. Secretary's receipts House of Correction Fund. Sidewalk Assessment. Charges for advertising and inspection. Charges on paving. City Treasurer, returned as uncalled for. Vacating Beck street. Interest on special assessments. Balance from Repaving Fund. Balance from Road District Funds.	3 4,772 219,804 64,089 20,405 1,935 899 4,142 80 202 10 7,457	25 00 85 75 97 00 01 77 24 02 66 78
Balance on hand July 1, 1900. Appropriation. Secretary's receipts House of Correction Fund. Sidewalk Assessment. Charges for advertising and inspection. Charges on paving. City Treasurer, returned as uncalled for. Vacating Beck street. Interest on special assessments. Balance from Repaving Fund. Balance from Road District Funds.	3 4,772 219,804 64,089 20,405 1,935 899 4,142 80 202 10 7,457 15,200	25 00 85 75 97 00 01 77 24 02 66 78

Balance..... \$ 21,645 48

G. A. R. BUILDING FUND.

At the beginning of the fiscal year there remained but one estimate to pay to Spitzley Bros., the contractors, for their final work of the G. A. R. building. The other items, costing a total of \$10,286.03, represent extras, sidewalks, wiring omitted from the original plans, and a few miscellaneous items incident to a building of that character.

Batchelder & Co., stone walks	1,606	39
Spitzley Bros., extras on contract	693	78
Spitzley Bros., 15th to final estimate	6,123	34
R. E. Raseman, in full for inspection	300	30
Field & Hinchman, plans for wiring building	50	00
Mich. Elec. Co. and Pub. Lighting Com., wiring and inspection of wiring.	1,398	77
Miscellaneous expenditures	63	45
	\$10,236	03

MARKET FUNDS.

EASTERN MARKET FUND.

General repairs	\$ 558	54
Hardware		
Plumbing	. 61	24
New iron hay sheds	1,869	00
Advertising	. 29	85
	e 9 594	

WESTERN MARKET FUND.

General repairs	2,752	12
Paints, oils, etc	816	09
Hardware	37	81
Plumbing	34	98
Lumber	7	28

\$3,648 28

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BELLE ISLE BRIDGE FUND.

Pay roll, bridge employees	8 6,960	00
Coal	205	95
Lumber	528	06
General repairs	141	39
Oil, waste, etc	72	19
Repairs to boilers, etc	39	39
Tools and brooms	22	80
Miscellaneous	20	65
•	27 985	42

BOARD OF PUBLIC WORKS GENERAL FUND.

Pay roll, Commissioners and office force	23,860	19
Pay roll, City Engineer and office force	19,476	79
Postage, car fare, etc	36	55
Supplies for Gas Inspector's office	60	50
Stationery	845	93
Miscellaneous	241	99
	\$44,021	95

SECRETARY'S RECEIPTS.

The following itemized statement shows the receipts by the Secretary for the fiscal year 1900-1901:

Repairs to pavements, including permit account	43,520	47
Additional charges on permits	86	04
Repairs to sidewalks	8,564	20
Constructing new sidewalks	3,224	61
Building permits	216	90
House moving permits	463	58
Rolling streets and alleys	3,617	45
Lateral sewer connections	2,902	00
Public sewer connections	1,023	09
Cement sacks returned	2,946	60
Inspection of gas meters	1,231	00
Backfilling Gratiot avenue, Sec. 3	4	50
Repairing areas	2	32
Over time penalty on streets	595	00
Detroit Citizens Street Ry., paving "Y" on Fort street at Clark avenue.	120	53
Detroit Citizens Street Ry., building pool grates, etc	56	87
Michigan Central R. R., rolling and sprinkling	7	50
Michigan Central R. R., building sewer connection, Woodward avenue	92	54
Michigan Central R. R., Woodward avenue subway	248	18
Cement, inspection, etc., private sewers 1227, 1232, 1262	175	30
Sale of old paving material	518	81
Sale of old bamboo	3	50
Sale of old Berea.	46	38
Sale of old cobble	722	58
Sale of old brick	442	50
Sale of old screenings (Eastern yd.) J. Hock	20	00
Sale of old election booths	880	00
Sale of gravel	101	70
Sale of crushed stone	968	42
Sale of sawdust from cedar yards	166	50
Sale of empty barrels, and barrels returned	48	06
Excess on sand (Henry Merdian contract)	9	20
N. Grieser, small case	. 8	50
Frank Wilson, labor		75
H. S. Pingree, repairing driveway	13	81
T. J. Kennedy, sewer grates and building sewer	69	01
Russell Wheel and Foundry Co., inspection sewer 1204	78	75
Jas. W. Millen, repairing gate	1	83
A. Grant, repairing fence	3	70
Bagley Estate, cleaning alley	6	27

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A. McPhee, removing hay from car tracks	•	. 2	50
D. Kieley, old draughting table		1	00
Highland Park Commission, use of sweeper		15	00
Repairing sewers		22	82
Cleaning sewers		7	59
Inspection of sewers		2	50
	8	72,700	36

COMPARISON WITH FORMER YEARS.

Received by Secretary for 1888-89	4,220	22
Received by Secretary for 1889-90	5,106	24
Received by Secretary for 1890-91	5,360	30
Received by Secretary for 1891-92	26,878	32
Received by Secretary for 1892-93	44,668	69
Received by Secretary for 1893-94	60,890	83
Received by Secretary for 1894-95	111,344	71
Received by Secretary for 1895-96	82,253	40
Received by Secretary for 1896-97	102,721	49
Received by Secretary for 1897-98	53,007	88
Received by Secretary for 1898-99	56,974	60
Received by Secretary for 1899-1900	64,900	67
Received by Secretary for 1900-1901	72,700	36

RECAPITULATION.

Total expenditures made under the Board during the fiscal year are here given:

General Road Fund	317,354	82
Public Sewer Fund	139,398	41
Board of Public Works General Fund	44,021	95
Public Building Fund	7,845	77
Repaying Fund	348,799	30
Belle Isle Bridge Fund	7,985	43
Eastern Market Fund	2,524	23
Western Market Fund	3,648	28
Road District Fund	183,294	78
G. A. R. Building Fund	10,236	03
Asphalt Plant Fund	75	00
Assessment District, New Paving	261,159	66
Assessment District, Alley Paving	322	26
Assessment District, Lateral Sewers	51,313	59
	\$ 1,377,979	51

ROAD DISTRICT FUNDS.

Condensed Statement Showing for What Expenditures Were Made.

Cleaning Cl Paved U. Streets S	Cleaning Unpaved Streets	Sweeping Streets	Cleaning Alleys	Tools and Repairs to Tools	Sweeper Brooms	Cutting Trees	House of Correction Loan Returned	Miscel- laneous	Total Expendi- tures
300 88		\$1,206 86	\$3,169 15	\$160 45	\$492.53	\$160 25	\$3,200 00	8222 28	\$28,239 06
90 887		678 10	3,751 72	204 23	253 41	156 50	5,000 00	35 05	28,596 74
1,147 08		405 30	2,818 14	245 09	185 50	8	2,000 00	65 12	11.124 08
		436 60	2,811 57	110 02	181 85	121 25	4,000 00	7 20	17,757 28
914 87		828 GO	2,053 22	%	67 25	105 25	1,600 00	19 61	9.175 12
493 11		88 987 88	2,692 %	79 25	147 75	125 75	2,000 00	55	10,641 34
165 %		242 40	1,826 23	4 05	112 25	44 75	1,500 00	142 40	8.156 88
791 88		217 40	1,291 46	104 30	90 93	102 00	1,000 00	93 70	7,974 15
1,491 67		318 20	1,600 32	152 61	81 80	# 28		28 28	7,952 56
1,216 68		255 69	1,569 93	87 60	47 19	\$3 \$3		10 28	7.82% 88
1,382 55		193 30	1.278 34	41 87	72 25	35 00	1,000 00	20 35	7,701 18
1.755 11		219 50	702 49	67 00	38	15 50		00 †	6.888 98
1,572 30		218 40	1,050 49	₹8 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	31 50	13 25			6,720 08
2,101 10		230 36	658 28	65 05	8 8	47 50		2 95	6,560 63
2.809 33		215 90	479 42	104 19	72 50		200 00	9 83	6.854 18
8.854 91		201 84	St 18	36 36	40 75	14 00		6 05	6.925 46
3,608 04		228 60	645 99	114 81	88	7 00		114 48	7.248 80
\$24,585 92	99	\$5.880 48	\$28.974 33	\$1.786 97	\$2.045 58	\$1.182 75	\$21,800 00	\$794 40	\$794 40 S188.284 78

CONDENSED STATEMENT.

Showing Condition of Funds at Beginning and Close of Fiscal Year.

NO. OF ROAD DISTRICT	Cash Credit Balance July 1, 1900	Appropriation, tion, 1900–1901	Actual Receipts from Appropria-	From Deficiency Fund	Cash Receipts from other Sources	Total Actual Receipts	Disburse- ments for Fiscal Year	Credit Balance July 1, 1901
First	\$ 6 11	\$20,000 00	\$16,977 56	\$3,022 44	\$6,000 75	\$28,006 86	\$28,239 06	\$ 232 20
Second	14 61	20,000 00	16,977 56	3,022 44	8,004 51	28,019 12	28,596 74	577 62
ThirdT	585 50	8,000 00	6,791 81	1.208 69	3,000 00	11,595 50	11,124 08	471 42
Fourth	158 81	11,000 00	9,338 23	1,661 77	6,011 44	17,170 25	17,757 26	587 01*
Fifth	184 44	8,000 00	6,791 31	1,208 69	1,500 00	9,634 46	9,175 12	129 34
Sixth	387 18	8,000 00	6,791 31	1,208 69	2,507 00	10,894 18	10,641 34	¥ 757
Seventh	3 45	8,000 00	6,791 31	1,208 69	1.054 20	9.067 65	8,156 %	77 006
Eighth	351 44	7,000 00	5,941 89	1.058 11	1,000 00	8,351 44	7,974 15	877 28
Ninth	154 62	8,000 00	6,791 31	1.208 69	1,000 75	9,155 37	7,952 56	1,302 81
Tenth	87 97	7,000 00	5,941 89	1,058 11	1,000 75	8,088 72	7.828 88	760 34
Eleventh	814 58	7,000 00	5,941 89	1.058 11	1,000 00	8,314 53	7,701 13	613 40
Twelfth	0+ 60+	7,000 00	5,941 89	1.058 11	1,017 25	8,426 65	6.888 98	1,587 67
Thirteenth	68 81	7,000 00	5,941 89	1,068 11	1.000 00	8,068 81	6,720 08	1,848 78
Fourteenth	1,425 95	9,000 00	5,092 52	8+ 106	1,000 00	8,425 95	6,560 63	1,865 32
Fifteenth	6 1 ×88	7,000 00	5,941 89	1,058 11	1,001 50	8,839 99	6.854 18	1,985 81
Sixteenth	1,201 73	6,000 00	5,092 52	907 ±8	1,000 00	8,201 73	6,925 46	1,276 27
Seventeenth	æ #	8,000 00	6,791 31	1,208 69	1,008 56	9,847 64	7,248 80	2,098 84

*Overdrawn.
Above balances transferred to General Road Fund.

TABLE OF CASH BALANCES.

Department of Public Works Funds.

Credit Balance July 1, 1901	\$21.645_48	6,609 85	268 80	*	1,519 52	5,259 71	640	5 18		85 01	9,729 82
Disburse- ments for Fiscal Year, 1900-1901	\$31,573 75 \$114,424 05 \$389,000 30 \$317,854 K2	139,386 41	7,845 77	348,799 30	44,021 95	7,9%5 48	2,524 23	8.648 28	10,236 08		75 00
Total Actual Receipts	\$339,000 30	146,008 28	8,414 67	356,256 96	45,541 47	18.245 14	8,165 08	3,653 41	10.236 08	85 10	9,804.82
Cash Receipts from other Sources	\$114,424 05	11,787 79	505 30	1,120 53	1,233 00				2,804 78		
From Frian F	\$31,578 75	18,812 18	259 74	48.819 47	1,389 81	252 +4	62 S01				
Actual Receipt from Appropr	\$ 4,772 25 \$219,804 00 \$188,225 25	118,892 82	7,640 28	246,065 58	42,064 19	7,747 56	3,026 08				9.304 82
Appropriation 1900–1901	\$219,804 00	1,565 47 132,705 00 118,892 82	7.900 00	289,885 00	13,454 00	8,000 00	8.129 82				
Credit Balance July 1, 1400			9 87	65,251 18	14 158	5,245 14	35 76	3,653 41	7,431 25	85 01	
NAME OF FUND	General Road	Public Sewer	Public Building	Repaving	Department Public Works, General	Belle Isle Bridge	Eastern Market	Western Market	G. A. R. Building	Reservoir Fund	Asphalt Plant.

*Balance transferred to General Road Fund.

FORTY-NINTH REGULAR REPORT

OF THE

BOARD OF WATER COMMISSIONERS

OF THE CITY OF DETROIT

TO THE

COMMON COUNCIL OF THE CITY OF DETROIT.

TOGETHER WITH THE

REPORTS OF THE OFFICERS OF THE BOARD

FOR EIGHTEEN MONTHS,

ENDING JUNE 30TH, 1901.

DETROIT FREE PRESS PRINTING COMPANY, 1901.

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Report of Superintendent of Meters and Inspection	55
Report of Chief Engineer at Pumping Works	68
Report of the Superintendent of Construction	68
Sunnlament	Q!

THE BOARD OF WATER COMMISSIONERS

OF THE

CITY OF DETROIT.

RATES JULY 1, 1900.

METER RATES. Payable Quarterly. OTARTERI.V First 80,000 gals \$1 75 Minimum Rate..... ASSESSMENT RATES. Additional Families to first, in same house supplied through same faucet, each family..... Livery Stables, " " " Dray and Team Horses, each..... Cows, each.... Stores and Offices, from......\$1 00 to 12 00 Saloons, from 6 00 to 50 00 Bar, with faucet, from 8 00 to 50 00 Fish Houses, from 6 00 to 50 00 Beer Pump 2 00 Hotels and Taverns, in addition to family rate, each room Boarding Schools, from\$4 00 to 50 00 Printing Offices.—Special rates. 1 00 Boarding Houses, in addition to family rate, each boarder or roomer, 40 Estimated quantities of water each 1,000 gallons Building Purposes, each 1 M brick. 07 ΩR .. ** 01 .. FIXTURES. Bath Tub, for families, 1st tub..... each additional tub. public, each tub..... 4 00 Automatic Water Closets, for family, 1st closet 1 60 each additional..... 60 for hotels, stores, factories, etc., for 10 persons.....each additional person..... 2 00 6 00 2 00 Wash Hand Basins, for family, each "for other purposes, each person..... Hose Bibb or Connection, premises 30 feet front or less...... 50 15 RΩ 44 Special Bates for larger grounds. Fountains......\$5 00 to 20 00

Street Sprinklers, each wagon.....

Where there is a waste of water an increase of rates will be made.

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50 00

BOARD OF WATER COMMISSIONERS

OF THE

CITY OF DETROIT.

MEMBERS:

JOSEPH J. NOEKER, 1902. EDWARD W. PENDLETON, 1904. JOHN ZYNDA, 1903. DARIUS D. THORP, 1905.

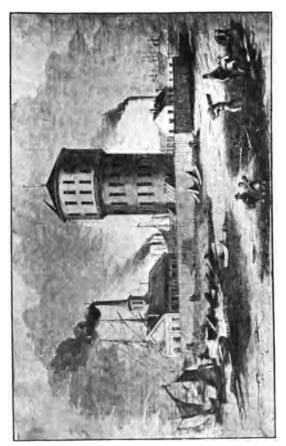
JOSEPH J. CROWLEY, 1906.

COMMITTEES:

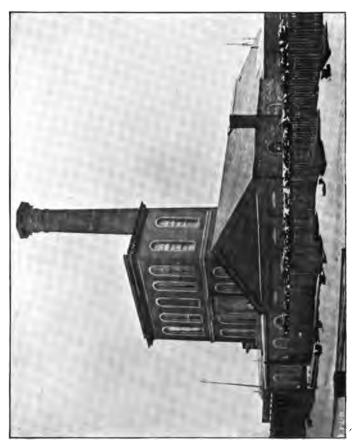
WAYS AND MEANSCommissioners PENDLETON, CROWLEY.
EXTENSION AND CONSTRUCTION, Commissioners CROWLEY, PENDLETON.
PUMPING WORKS
SUPPLIES Commissioners ZYNDA, THORP.
The President is ay officio member of each committee

OFFICERS:

L.
N.
•



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1874.

REPORT

OF THE

BOARD OF WATER COMMISSIONERS

OF THE

CITY OF DETROIT.

To the Honorable the Common Council of the City of Detroit:

The Board of Water Commissioners of the City of Detroit respectfully submits, herewith, its report for a period of one year and six months, ending June 30, 1901. The fiscal year has formerly coincided with the calendar year, but for purposes of convenience it has now been made to correspond with that of other departments of the city government.

All branches of this department are in a satisfactory condition. Special attention is called to the detailed reports of the various officers of the Board. Much of the efficiency in the administration of the various parts of the system is due to the competence of the heads of departments and to the faithfulness of many employes who have long been in the service of the Board.

The total receipts for the eighteen months, amounted to the sum of \$936,738.06. The total expenditures for the same period were \$728,680.29, of which the sum of \$245,-251.26 was expended for construction, \$176,416.26 for operation and maintenance, \$91,435.95 for interest, \$200,000 for bonded indebtedness, \$8,514.71 under the Hurlbut Will, \$6,833.21 on deposit for work in the Village of River Rouge, and \$228.90 for miscellaneous accounts.

The total number of families on the assessment rolls, July 1, 1901, was 62,279, an increase of 1721 from July 1, 1900.

There are but 102 families within the corporate limits not supplied with water.

The amount of water pumped for the twelve months to January 1, 1901, was 17,077,100,477 gallons, and for the succeding six months, was 8,849,732,755 gallons, a total of 25,926,833,232 gallons. The daily per capita consumption for that period was 163 gallons. This amount is largely in excess of the ordinary consumption, the daily average of 134 cities in the United States being 137 gallons. The daily per capita rapidly decreases in proportion to the use of meters. After careful investigation, the city of Milwaukee has adopted the general use of meters, and the city of Cleveland has also recently adopted the meter system. Many cities are looking in this direction rather than to the extension of plans to meet increased demands.

There is no desire on the part of this Board to restrict in any way the most liberal use of water for all legitimate purposes, but there is no necessity that the people should be compelled to pay for waste that is a benefit to no one.

It is believed that with the completion of the present plans of extension and the gradual adoption of the meter system, the water supply will be ample for many years, notwithstanding the continued rapid growth of the cityThese plans comprise the installation of two high pressure engines, each with a daily capacity of 25,000,000 gallons, and an additional 42-inch main, all of which are now under construction and will be in operation the coming summer. An addition to the pumping station is building and important improvements have been made in connection with the supply to the various engines.

In order to meet the necessary expenditures for these improvements an Act of the last legislature empowered the Board, with the consent of the Common Council and the Board of Estimates, to issue bonds in the amount of \$500,000.

The Act of the legislature empowering the Board to assess abutting property for the expense of laying pipe has been declared unconstitutional by the Supreme Court and the moneys collected, amounting to the sum of \$13,992.65, have been refunded through the City Treasurer.

The Supreme Court has also determined that water rates cannot be collected for water furnished for public purposes unless provision therefor is made by the Board of Estimates. This decision does not apply to the Board of Education nor the House of Correction, nor does it, in express terms, require the Board to supply free water to the municipality at the expense of the general consumer. Either by mutual arrangement or under the control of the Supreme Court, some equitable assessment should be allowed by the Board of Estimates for water actually consumed by the city. It is a discrimination to tax water consumers only and not the entire property of the city for a public good.

In the administration of the trust submitted to our charge we invite the careful investigation of your honorable body.

Our relations with all departments of the city govern-

ment have been most amicable and the many courtesies that have been received are fully appreciated. Any suggestions for the promotion of the public good will be given careful attention: "In the multitude of counselors there is wisdom."

All of which is respectfully submitted.

JOSEPH J. NOEKER,
JOHN ZYNDA,
EDWARD W. PENDLETON,
DARIUS D. THORP,
JOSEPH J. CROWLEY,

The Board of Water Commissioners of the City of Detroit.

JULY 1, 1901.



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REPORT OF THE SECRETARY.

Detroit, Mich., July 1st, 1901.

To the Board of Water Commissioners of the City of Detroit:

Gentlemen:—I have the honor to submit the Secretary's report for the year ending December 31st, 1900, and for the six months ending June 30th, 1901.

During the period covered by this report \$200,000.00 of water bonds, at seven per cent, were refunded at three and one-half per cent; a system of water supply was installed in the Village of River Rouge, for which that village deposited with this Board the estimated cost, \$36,200.00. As both of these items appear in the summary of receipts and disbursements, the totals are consequently greater than they ordinarily would be. The total of receipts is further augmented by the payment from the City of Detroit, in the month of January, 1900, the sum of sixty-six thousand two hundred and sixty-nine dollars and fifty-five cents, which was withheld by the City Controller during the previous year, pending litigation.

The following is a detailed statement of the receipts and disbursements:

Receipts.

Water Rates Account.—	Year endi: December 1900.	81,	Six month ending June 30, 19	.s 01.	Total.
Rates received	\$309,385	22	\$164,616	76	
Percentage Account.—					
From delinquents	5,005	27	2,642	45	
For shutting off	44 8	50	235	20	•
Plumbers License Account.—					
Received for licenses	64 8	25	446	25	
Service Connection Account.—					
Service connections	3,751	75	1,859	25	
Labor and materials	139	51	39	38	
City of Detroit Account.—					
General tax levy	140,272	12	9,727	88	

Iron Pipe Extension Account.—	Year end December 1900.	ing r 81,	Six mor endir June 30,	ths ig ign	Total.
Assessment on abutting property.		87	0 4440 444,	2002.	
Michigan Central R. R	547				
Griffin Car Wheel Co	500	00			
Village of Delray	965	00	\$ 783	00	
S. D. Miller and J. H. Leggett,			•		
Trustees	2,225	00			
Elias Aberle	600				
Levi L. Barbour	285				•
Elias Aberle	425				
Material sold	2.237		623	25	
Berry Bros., Ltd	_,	••	243		
Murphy Chair Co			2,167		
Estate of Elizabeth Parker			2,10. 550		
F. J. Hecker			240		
Bonus W. E. Brownlee				00	
• • • • • • • • • • • • • • • • • • • •			40	00	
Bonded Indebtedness.—	2000 0000	ω.			
Sale of refunding bonds	200,000	w			
Hurlburt Fund Account.—	7 200	00	0.400	ω.	
Received from trustees of fund	7,300		2,400		
Interest	42	10	ย	79	
Real Estate Account.—	4.050		4 000		
Rents	1,956	22	1,000	00	
Meter Account.—		••	40		
Sale of meters and meter repairs.	294	23	18	90	
Interest Account.—					
On deposit, general fund	3,250		2,230		
On deposit, sinking fund	2,936		1,146	11	
Premium on bonds sold	14,600	00			
Pumping Water Account.—					
Sale of material	19	65	13	25	
Pumping Works Account.—					
Sale of material	50	00			
Service Extension Account.—					
Service extensions (formerly made)	256		20	96	
River Rouge Account	36,204				
Engineering Account	11	00	230	76	
Repairing Leaks Account.—					
Labor	42	05	14	32	
Horse and Wagon Account.—					
Sale of horses	210	00			
Office Account.—				-	
Sale of waste paper			1	00	

Total receipts\$745,437 43 \$191,300 63 \$986,788 06

Disbursements.

FOR CONSTRUCTION.

Extension Account.—	Year ending December 81, 1900.		Jτ	Six months ending June 30, 1901.		Total.
Superintendents and clerks	7,358	94	\$	2,860	82	
Foremen	3,139	18		1,763	35	
Watchmen, teamsters, plumbers,						
bricklayers and barnmen	4,058	14		2,053	01	
Labor	21,587	64		6,586	88	
Iron pipe	13,630	65				
Gates, valves and hydrants	2,017	91				•
Special castings	2,679	80		507	88	
Tools	110	4 0		36	03	
Repairing tools	, 53	83			71	
Lumber	54 5	31		171	24	
Coal	80	00		7	50	
Oil	37	92		11	18	
Repairing pavements	12	95		11	43	
Cement, sand, brick, lime, etc	1,981	60		231	85	
Gate wells and frames	2,228	97		762	68	
Wagon and harness supplies						
Packing	95	42				
Paint, etc	70	90				
Car fare and toll (\$1.04)	126	04		60	00	
Miscellaneous materials	251	63	•	48	4 2	
Cartage	1,175	95		74	25	
Stationery, books and printing	184	83		25	00	
Wooden plugs	20	10		3	65	
Chain pulley hoisting apparatus	187	50				
Superintendent's horse	62	50				
Rubber boots	75	67			87	
Channel iron rails and beams	116	39				
Refund to City of Detroit money						
received from assessment of						
water mains	13,992	65				
Lead, lead pipe and solder	592	69		214	73	
Medical services	5	00				
Telephone	495	26		124	80	
Hose and couplings	20	74				
Repairs to steam pump	42	55				
Refund laying pipe	657	68		1,247	58	
Right of way	285	00				
Sheriff fees, Gus Ronakowski vs.						
Board of Water Commission	83	30				:
Hardware	330	04		101	74	

For Construction— Service cocks\$ Legal services Advertising	Year end December 1900. 69 872 221	47 05	5	Six more so	aths 1901	L.	Total.	
Forge and fixtures	26	50)	8	80			
	79,034	20						
*Less amount furnished and charged to River Rouge	1,934	12	_			_		
\$	77,100	80	\$	16,935	72	\$	94,035	80
Meter Account—								
Superintendent and labor	4,279	68	\$	2,089	77			
Meters	1,803	10		1,621	86			
Specials and fittings	108	99			77			
Materials, solder, etc		16		_	90			
Lumber	122				95			
Horseshoeing		50			00			
Horse board		00			00			
Tools	_	39			69			
Street car tickets	_	50		-	50			
Printing and stationery	ນ 12	05		_	50 64			
Packing Horse and wagon repairs		55		_	10			
Repairing tools	_	30			83			
Gasoline, etc.	_	29			94			
Bicycle and repairs	•	25		_	35			
Telephone	46			27				
Pump		00			•			
Meter well covers	-	11						
Miscellaneous	22	42		21	54			
-	6,706	14						
*Less amount furnished and	0,100							
charged to River Rouge	7	63				_		
\$	6,698	51	\$	3,994	37	\$	10,692	88
Engineering Account—								
Civil engineer and assistants\$ Instruments	8,983 175		\$	4,408	43			
Tracing cloth, etc	117	-		109	36			
Books, maps and stationery	93			61				
Miscellaneous	38			38				
Street car tickets and postage	81			44				
Express and freight		14			96			

•	Year Dece	r endi: mber 1900.	n.	8	ix mont ending une 80,	hs 1901.		Total.	
Telephone			00			03			
Book case and furniture	•	16	57	•	89	86			
Material general survey		55	44		27	16			
Expenses survey to Wayne		16	00						
٠ ,	\$ 8	,629	50						
*Less amount furnished and									
charged to River Rouge		338	28 —	_			_		
\$	\$ 9	,291	22	\$	4,774	52	\$	14,065	74
Pumping Works Construction Accou									
Labor	\$ 2	2,718	33	\$	2,798				
Machine materials		566	08			85			
Repairing roof and cornice		208				20			
Telephone			32		32	50			
Telegrams	•		73						
Lead pipe	•	31	90						
Engineers' expenses tour of in-									
spection		218	85						
New boilers	4	,599	41						
Repairing intake pipe	2	,573	00						
Covering boilers		231	11						
Sounding for inlet		50	86						
Connecting up new boilers	2	,398	5 0						
Angle iron and steel		59	68		516	52			
Lettering, glazing paint, etc		118	26		18	45			
Harness repairs and shoeing		7	85		4	00			
Inspecting and testing new boilers		250	00						
Repairs to dock		363	26						
Stone cutting and labor on conduit	;	32	01						
Electric wiring, etc		7	66		2	75			
Closet fixtures and sink		79	17						
Nails, tools, etc		56	40		95	17			
Ropes, blocks and rollers		45	43		116	09			
Roofing felt and paper		16	30		5	00			
Brick, cement, sand, etc		106	88		2,031	52			
Labor	€	3,729	02		10,179	04			
Lumber		613	84		1,350	37			
Advertising and printing		178	62		51	02			
Pipe and special castings	3	,683	97		673	46			
Double faced gates	3	696	00		8,454	00			
Lowering pipe and valves		54	7 5		30	00			
Altering patterns		17	99						
Tie rods for engine bed					910	00			

	Year end Decembe 1900	ing r 81,		Six mon endin June 80,	ths 1901.		Total.	
New gallery			\$	8,249	10			
Car tickets				40	00			
Electric candles				27	60			
Steam pump and divers				490	90			
Pile driving, etc				80	00			
Plastering well				26	75			
Twine, packing oakum, etc				14	74			
Paint and lead				2	04			
Traveling crane				2,240	00			
Cartage				•	00			
Pumping Works Construction, new b	milding-	_		_				
Foundation contract, on account	_			8,879	00			
Architects, on account	500			1,300				
ATCHICCES, OH ECCOUNT		_	_	1,000	_	_		
:	\$ 47,012	24	\$	48,743	80		95,756	04
Horse Expense Account (Iron Pipe Con	struction	ı)—						
Horse shoeing	231	78		101	15			
Bedding	40	00		5	00			
Drugs and veterinary services	92	16		5	41			
Feed, oats and hay	501	00		343	68			
Barn tools, etc	7	73		2	10			
	872	67	-	457	31	- \$	1,330	01
· · · · · · · · · · · · · · · · · · ·	•	٠.	•	201	-	*	1,000	VI.
Village of River Rouge Construction		04						
Freight and Telegrams		31						
Car fare		00						
Printing		00						
Pig lead	1,613							
Pay rolls	6,445							
Meter	400							
Ball joints	120	00						
Specials, castings, hydrants and								
automatic gate	1,664							
Hardware, tools, etc	8	03						
Iron pipe	13,801	49						
Laying main across River Rouge.	1,685	00						
License for Carroll Patent	175	00		•				
Teaming	624	04						
Brick, sand and cement	101	73						
Coal	. 13	95	,					
Packing	21	99						
Miscellaneous	8	14						
Material and labor furnished by								
iron pipe department	1,934	12						
• • •	-							

	Year end December 1900.	ling or 81,	J	Six mon endin June 30, 1	ths 901.	Total.	
Material and labor furnished by engineering department	\$ 338	28					
Material and labor furnished by office department		34					
Service cocks		00					
Labor furnished by meter dept		63					
	\$ 29,370	79			_	\$ 29,370 79	
Total Construction	\$ 170,845	51	. \$	74,905	75	\$245,251 26	i
Refund to Village of River Rouge	•						
excess of deposit over cost Use of pipe for K. of P. encamp	-	21				6,833 21	
ment	228	90				228 90	
0.000.000.000							
OPERATION AND	MAIN'	rer	1A	NCE.			
Pumping Water Account—	a 04 040	-0		10.010			
Engineers, firemen, etc			\$.				
Unloading coal	25,710 2,485			7,043 955			
Boiler and machine repairs	2, 1 00 224			1,573			
Engine oil		_		227			
Wash and packing rags				151			
Small supplies, soap, brooms, etc.		57		45			
Boiler and engine supplies	301	23		58	10		
Telephone	. 9	05					
Electric light supplies	79	3 0		1	2 0		
Repairing coal car		52					
Ice		00					
Hose		74					
Stationery and printing		55		4	00		
Express Kerosene and gasoline		41 91		0.4	32		
Horseshoeing		00			00		
Paint, etc.		92			96		
Boiler inspection		50			00		
Нау		35		-	•		
Insurance on boilers	290	00					
	\$ 51.354	96	\$ 2	21 057	92	\$ 72,412 88	
Office Account—	,,	-0	•	,		· ·-,-22	
Manager, secretary and clerks, etc.		43	\$:	10,614	74		
Watchmen and janitors	1,887	00		964	00		

•	Year end Decembe 1900,	ing r \$1,		Six mon endin June 30,	ths 1901.		Total.	
Carpenter and general work			\$					
Books, printing, stationery and								
binding	902	12		728	40			
Rubber stamps	12	10		4	4 5			
Miscellaneous supplies and ex-								
pense	104	17		145	38			
Postage	148	85		86	93			
Telephones	280	52		116	86			
Advertisements and papers	148	34		31	04			
Premium on guarantee bonds	71	65						
Ice	54	36		20	45			
Horse expense	181	00		90	00			
Cleaning building	135	00		60	00			
Towels and supplies	78	00		39	00			
Horseshoeing	24	50		16	50			
Express and freight		91						
Street car tickets	22	50		10	00			
Safety deposit rent	10	00						
Disinfectants	. 12	50		6	00			
Harness repairs	1	40		3	40			
Gas and electric power	9	19		4	88			
Printing annual report	218	00						
Half-tones for annual reports				168	50			
Rebate on water tax	9	06						
Telegrams	4	02		19	63			
	29, 283	12						
Less amount charged to River	000	0.4						
Rouge	333	34 —	_			_		
Inspection Account—	28,954	78	\$	13,921	41	\$	42,876	19
Inspectors and clerk	6,335	80	\$	3,216	68			
Street car tickets	225	00		105	00			
Stationery and books	30	25		11	40			
Express				1	40			
Electric lamp supplies	10	16		13	80			
Plumbers' License Account—	6,601	21	\$	3,348	28	\$	9,949	49
Printing	6	00		8	00		14	00
Repairing Leaks Account—							_	
Supt., clerks, watchmen and labor.\$	12,634	84	\$	7,223	55			
Repairing pavements and lawns	55		•	•	71			
Care of horses	165	00		90	00			

	Year end December 1900,	ling er 81,		Six mon endin June 30,	ths 1901.		Total.	
Wagon and harness supplies			\$	3	25			
Sundries \$	11	10		11	98			
Horseshoeing	15	00	,	7	00			
Lumber				7	48			
Cartage	6	50						
Telephone		00		12	00			
Rubber boots		48			60	•		
Tools		42			25			
Car fare	_	00		_	00			
	J	w		_	33			
Oil			_		აა —	_		
\$	12,921	57	\$	7,444	15	\$	20,365	72
Meter Repairs and Expense Account-	- ·		•	•		•		
Labor	1,090	25	8	549	47			
Fittings	413		•		96			
Stationery	12	00						
Freight		78						
- Treight			_			_		
\$	1,519	31	\$	648	43	\$	2,167	74
Service Connection Account—								
Labor \$	7,975	02	\$	4,560	09			
Service cocks, sleeves and valves.	2,055	51		336	00			
Car fare	260	00		115	00			
Telephone	6	00						
Tools	78	30						
Stationery, printing, etc		51		23	25			
Miscellaneous		97		_	73			
Packing		13		•				
Lacking								
\$	10,445	44						
Less amount charged to River								
Rouge	46	00						
•	10,399	44	•	5.054	Ω7	•	15,453	K1
•	•					•	-	
Horse Expense Account (Service Cor			ща			ıR	neaks)	.—
Hay, oats, bran and corn	464			343				
Shoeing	146			100	-			
Bedding	30	00		-	00		•	
Veterinary services and drugs				8	00			
	641	48	-	477	Ω1	•	1.118	47
•		πU	Ψ	411	ΔI	Ψ	1,110	T 1
Office Furniture and Fixtures Accoun		^~						
Repairs		06		_				
Electric fans, etc	157	58		_	29			
Cuspidors				5	50			
, \$	199	64	\$	9	79	\$	209	43

Real Estate Revenue and Expense Account— 562 96 55 30 Repairs 562 96 55 30 Plumbing 29 63 Insurance 120 61 344 46 Paint and glass 61 73 35 40	
Plumbing	
Insurance	
Paint and glass	
1 mm tand Blass	•
Lumber 189 31 106 96	
Legal services 200 00	
Fire alarm rental 20 00	
\$ 1,184 24 \$ 542 12 \$ 1,726 3	36
Horse and Wagon Account—	
Harnesses and wagon painting	
and repairs	
Horses purchased	
Forge equipment	
pairs 412 50	
\$ 1,591 68 \$ 287 65 \$ 1,879 3;	3,3
Percentage Account—	1.4
Labor\$ 5,443 15 \$ 2,799 99 \$ 8,243 1	14
Hurlbut Fund Account— •	
Labor \$ 4,874 60 \$ 740 25	
Library 295 98 5 25	
Tools and repairs	
Librarians 1,155 00 315 00	
Repairing water clock 156 94	
Express charges 1 50	
Paints, oils, etc 66 42 9 63	
Miscellaneous	
Lumber 26 40	
Flower pots and baskets 31 77	
Sprinkling wagon 345 00	
Plants and seeds	
Horseshoeing and feed 38 20 60 80	
Subscription to papers and books	
and stationery	_
\$ 7,310 16 \$ 1,204 55 \$ 8,514 7	71
Interest account—	
Interest and bonds paid \$ 60,807 00 \$ 29,945 00	
Advertising and printing of bonds 683 95	
\$ 61,490 95 \$ 29,945 00 \$ 91,435 9 Bonded Indebtedness Account—	95
Water bonds paid\$200,000 00	•

RECAPITULATION OF EXPENDITURES FOR CONSTRUCTION AND OPERATION AND MAINTENANCE.

	Year endi: December 1900.	sī,	Six mont ending June 30.	he 1901.	Total.
Extension account\$			\$ 16,935	72	\$ 94,035 80
Meter account	6,698	51	3,994	37	10,692 88
Engineering account	9,291	22	4,774	52	14,065 74
Pumping works account	47,012	24	48,743	80	95,756 04
Horse expense account	872	67	457	34	1,330 01
Village of River Rouge	29,370	79			29,370 79
-					
	170,345	51	\$ 74,905	75	\$245,251 26
Refund to the village of River					
Rouge	6,833	21			6,833 21
, Use of pipe K. of P. encamp-					
ment	228	90			228 90
For Operation and Maintenance—					
Pumping water account\$	51,354		•		•
Office account	28,954		13,921		,
Inspection account	6,601		3,348		
Plumbers' license account		00		00	
Repairing leaks account	12,921	57	7,444	15	20,365 72
Meter repairs and expense ac-					
count	1,519		648	43	_,
Service connections	10,399	44	5,054	07	15,453 51
Horse expense, service cocks, re-					
pairing leaks	641	46	477	01	1,118 47
Office furniture and fixtures	199	64	9	79	209 43
Real estate revenue and expense.	1,184	24	542	12	1,726 36
Horse and wagon account	1,591		287	65	1,879 33
Percentage account	5,443	15	2,799	99	8,243 14
\$	120,817	44	\$ 55,598	82	\$176,416 26
GENERAL RECAPITULATION	ON OF	E	KPENDI	TU	RES.
Total construction\$	170,345	51	\$ 74,905	75	\$245,251 26
Refund to village of River Rouge	6,833	21			6,833 21
Total operation and maintenance.	120,817	44	55,598	82	176,416 26
Total Hurlburt fund	7,310	16	1,204	55	8,514 71
Total interest account	61,490	95	29,945	00	91,435 95
Total bonded indebtedness	200,000	00			200,000 00
Total use of pipe K. of P. encamp-	•				•
ment	228	90			228 90

\$567,026 17 \$161,654 12 \$728,680 29

The total receipts of the receiving clerk from January 1st, 1900, to January 1st, 1901, were as follows:

January February March April May June July August September October	225,516 11,104 53,707 8,717 52,267 82,645 62,882 18,175	65 81 24 47 25 19 09 58	
November December			
Cash on hand January 1, 1900	\$747,437	43	
From January 1, 1901, to July 1, 1901:			\$750,319 07
January February March	10,746	01	
April			
May	. 11,065	65	
June	18,081	32	
	\$191,300	83	
Cash on hand January 1, 1901			
With bank deposits as follows:		_	\$194,210 80
January, 1900	e 199 000	200	
February			
March	-		
April			
May	12,302	42	
June	,	79	
July			
August	•		
September			
October			
December			
	\$747.408		
Cash on hand January 1, 1901			
1			\$750,319 07

January, 1901	.\$ 69,080	91		•
February				
March	. 10,387	80		
April	65,078	64		
May	. 15,691	88		
June	. 17,093	98		
	\$191,825	29		
Cash on hand, July 1, 1901	. 2,385	51		
			\$194,210	80
				_

Cash Statement for the Year Ending December 31, 1900.

	Dr.			
Cash on hand December 31, 1899\$ Cash in Bank—	2,881	64		
General fund account	10,047	89		
Sinking fund account	42,734	16		
Hurlburt fund account	26	19		
Secretary fund account	1,000	00		•
- \$	56,689		.	
Total receipts	45,437	43		
-			\$802,127	31
	Cr.			
Cash on hand December 31, 1900\$ Cash in Bank—	2,910	17		
General fund acct\$124,561 71 Outstanding checks				
124,551 51	•			
Sinking fund account 106,581 33				
Hurlbut fund account 58 13				
Secretary fund account 1,000 00 \$2	32,190	97		
	35,101	14		
Total disbursements 5	67.026	17		
· 		_	\$802,127	31

Cash Statement for the Six Months ending June 30, 1901.

	Dr.			
Oash on hand, December 31, 1900\$	2,910	17		
Cash in Bank—	04 - 4			
General fund account 1				
Sinking fund account 1	.00.581	33		
Hurlbut fund account	58	13		
Secretary fund account	1,000	00		
	35,101	14		
Total receipts 1	•		•	
Total receipts			9 400 401	
——————————————————————————————————————		_	\$426,401	"
	Cr.			
Cash on hand, June 30, 1901		•		
	2,385	51		
Cash in Bank— General fund account	2,385 .72,588	51 45		
Cash in Bank— General fund account	2,385 .72,588 87,510	51 45 32		
Cash in Bank— General fund account	2,385 .72,588 87,510 1,263	51 45 32 37		
Cash in Bank— General fund account	2,385 .72,588 87,510	51 45 32 37		
Cash in Bank— General fund account	2,385 .72,588 87,510 1,263	51 45 32 37 00		
Cash in Bank— General fund account	2,385 72,588 87,510 1,263 1,000 84,747	51 45 32 37 00 65		

THE AMERICAN EXCHANGE NATIONAL BANK. Detroit, January 2, 1901.

Benj. F. Guiney, Secretary Board of Water Commissioners of the City of Detroit:

Dear Sir—This is to certify that the amounts of balances in this bank to the credit of the Board of Water Commissioners of the City of Detroit at the close of business December 31, 1900, were as follows:

General account	\$124,561.71
Sinking fund	106,581.33
Hurlbut fund	58.13
Secretary fund	1,000.00

Yours truly,

HAMILTON DEY, Cashier.

THE AMERICAN EXCHANGE NATIONAL BANK. Detroit, Mich., July 1, 1901.

Benj. F. Guiney, Secretary Board of Water Commissioners of the City of Detroit:

Dear Sir—This is to certify that the amounts of balances in this bank to the credit of the Board of Water Commissioners of the City of Detroit at the close of business June 30, 1901, were as follows:

General account	\$172,588.45
Sinking fund	87,510.32
Hurlbut fund	1,263.37
Secretary fund	1,000.00

Yours truly,

HAMILTON DEY,

Cashier.

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The following table is the report of the assessment for the year commencing July 1, 1900.

ASSESSMENT 1900-1901.

		F	AMILII	ia.		nts.	4	'		
Dist.	WARDS.	Supplied.	Not Supplied.	Whole Number.	Increase.	Vacant Tenements.	1900-1901.	Increase.	Transf'rd to Meter Rolls.	
	Ninth	5,856	18	5,869	183	185	\$17,825 70	\$4,040 10	\$29 8	
1	Fifteenth	1,979	5	1,984	+22	28	8,096 50	1,790 25	62 5	
	Seventeenth	2,092	16	2,108	116	88	9,058 90	2,200 20	94 8	
	Totals	9,927	84	9,961	277	191	34,476 10	8,080 55	186 10	
_	Eleventh	8,890	8	8,898	81	101	18,859 80	2,787 75	86 70	
2	Thirteenth	8,198	••••	8,198	158	28	11,528 80	2,554 25	69 40	
	Totals	7,088	8	7,096	189	129	24,887 60	5,812 00	156 10	
_	First	8,025	1	8,026	94	61	17,074 68	2,678 85	78 5	
3	Seventh	8,546	6	8,552	82	21	11,870 95	2,764 20	187 5	
	Totals	6,571	7	6,578	196	82	28,445 60	5,448 05	211 0	
	Third	8,780	2	8,782	94	34	12,672 00	2,675 10	92 9	
4	Fifth	4,185	В	4,190	69	57	18,308 20	2,488 90	217 7	
	Totals	7,915	7	7,922	168	91	25,975 20	5, 164 00	309 9	
_	Second	2, 468	8	2,466	146	88	14,650 75	808 15	845 6	
5	Sixth	4,099	4	4,108	96	76	15,997 55	2,528 95	12 0	
	Totals	6,562	7	6,569	242	159	80,648 80	2,839 10	857 6	
_	Tenth	4,714	1	4,715	189	44	17,874 70	4, 185 15	58 0	
6	Fourteenth.	2,885	7	2,842	92	42	10,728 70	2,570 50	80 0	
	Totals	7,549	8	7,557	281	86	28,598 40	6,705 65	188 0	
_	Fourth	8,496	5	8,501	*150	98	15,911 50	2,258 06	129 1	
7	Twelfth	8,784	7	8,741	66	89	18,875 80	8,290 50	70 8	
	Totals	7,230	12	7,842	*84	187	29,787 80	5,543 55	199 44	
	Eighth	8,918	8	8,916	141	44	15,987 90	8,898 80	· 56 74	
8	Sixteenth	8,769	50	ძ,819	220	80	12, 591 00	8,889 55	54 2	
	Totals	7,682	53	7,785	861	74	28, 578 90	6,787 86	110 9	
	Aggregate	60,524	136	60,660	1,555	999	\$281,897 40	\$45,768 75	\$1,669 1	

^{*} Decrease.

The following table is the report of the assessment for the year commencing July 1, 1901.

ASSESSMENT 1901-1902.

		F	AMILIE	er.		nts.	1		
Dist.	WARDS.	Supplied.	Not Supplied.	Whole Number.	Increase.	Vacant Tenements.	1901-1908.	Increase.	Transf're to Meter Rolls.
	Ninth	5,867	18	5,880	11	157	\$17,641 75	\$816 05	\$118 5
1	Fifteenth	2,069	1	2,070	86	28	8,785 70	689 20	88 7
	Seventeenth	2,828	4	2,827	219	27	10,258 40	1,204 50	82 6
	Totals	10, 259	18	10,277	816	207	86,685 85	2,209 75	289 8
	Eleventh	4,002	8	4,010	112	5	18,631 00	271 70	178 6
2	Thirteenth	8,268	••••	8,268	65	25	11,888 50	860 20	198 10
	Totals	7,965	8	7,278	177	80	25,519 50	681 90	866 70
	First	8,284	1	8,265	259	47	18,117 85	1,049 70	116 20
8	Seventh	8,599	5	8,604	52	58	11,525 45	154 50	122 8
	Totals	6,883	6	6,889	811	100	29,642 80	1,197 20	288 5
_	Third	8,827	4	8,881	99	41	18,129 20	457 90	168 0
4	Fifth	4,229	2	4,281	41	47	18,904 50	601 80	196 8
	Totals	8,066	6	8,062	140	88	27,088 70	1,058 50	364 8
_	Second	2,509	2	2,511	45	46	14,559 96	+97 79	288 9
5	Sixth	4,186	8	4,189	86	60	16,041 10	48 55	186 6
	Totals	6,645	5	6,650	81	106	80,594 06	*54 84	475 5
	Tenth	4,812	1	4,818	98	88	18,414 20	589 50	227 8
8	Fourteenth.	2,948	7	2,950	108	25	11,708 40	979 70	89 8
	Totals	7,755	8	7,768	206	58	80,117 60	1,519 90	267 1
	Fourth	3,584	6	8,590	89	78	16,512 50	601 00	180 9
7	Twelfth	8,850	7	8,857	116	68	14,881 60	505 80	205 5
_	Totals	7,484	18	7,447	205	146	80,894 10	1,106 80	386 4
	Eighth	4,028	8	4,026	110	85	16,718 90	725 80	285 0
8	Sixteenth	8,969	85	8,994	175	20	14, 178 90	1,587 90	180 0
	Totals	7,982	88	8,020	285	55	30,892 10	2,818 90	865 0
	Aggregate	62,279	102	62,881	1,721	790	\$241,879 71	\$9,982 81	\$2,708 8

^{*} Decrease.

As shown in this table, July 1, 1901, there were 62,279 families in the City of Detroit. Using the average per family obtained as in previous years, 5.04, the population of the city at that time was 313,886, an increase over July 1, 1899, of 10,086.

The average used was obtained by taking the population as shown by the United States Census of 1860-70-80-90, and 1900, and dividing by the number of families on Assessors' books for those years, as follows:

Years.	Population per census.	No. of families assessed.	Average.
1860	. 45,619	8,973	5.08
1870	. 79,757	14,717	5.42
1880	. 116,3 4 0	22,423	5.18
1890	. 205,876	42,059	4.80
1900	. 285,704	60,524	4.72

Making the general average 5.04.

The following table shows the receipts for water rates during the year, arranged by districts, and giving the amount collected upon each annual assessment:

RECEIPTS OF WATER RATES BY DISTRICTS.

From January 1st, 1900 to December 31st, 1900.

	888888888	88
TOTAL	\$30 6 9 6 9 6 30 6 20 7 20 7 1.137 95,981 82 194 8	\$309,385
Meters.	\$1.25 5.35 4.75 10.55 11.340 58 14,673 68 \$92,961 83	\$92,961 32
STE DISTRICT, WARDS 8 AND 16.	\$1 25 5 85 4 75 11,840 55 14,673 68	\$26,036 16
HATDISTRICT, 2D DISTRICT, AND WARDS	\$4 87 12,682 50 15,141 43	Total \$31,572 58 \$23,659 17 \$26,467 88 \$23,766 30 \$31,901 55 \$26,223 52 \$27,796 74 \$26,036 16 \$92,961 32 \$809,885 22
6TH DISTRICT, WARDS 10 AND 14.	\$1 75 8 40 11 50 4 00 8 00 5 82 21 24 11,523 11	\$26,223 52
bth District. Wards 2 and 6.	\$1 25 2 50 11 75 11,014 57 14,664 55 16,201 54	\$31,901 55
4TH DISTRICT. WARDS 3 AND 5.	\$1 25 5 00 2 50 2 50 2 50 2 50 9 69 10,471 55 18,878 91	\$23,766 30
SD DISTRICT, WARDS 1 AND 7.	\$7 50 \$ 50 7 00 11,737 02 14,701 88	\$26,467 88
2D DISTRICT, WARDS 11 AND 13.	\$5 00 11 75 2 00 \$ 25 \$ 4 71 25 66 9,88 98 87 21 12,805 89	\$22,659 17
ist District to District Wards Wards Wards 11 and 13.	18,7	\$ 31,572 58
YEARS.	1892-93 1893-94 1894-95 1895-96 1896-99 1898-00 1899-00	Total

1901.
क्र
June
1901 to June 30th,
1st,
January
From

#1 88	1 13	13 10 119 50 164,480 58	\$164,616 76
	130	\$1 75 \$5.00 \$5.00 \$1.00	Total. \$16,644 15\$12,055 48\$18,514 14 \$12,875 78 \$14,262 28 \$18,904 78 \$14,057 08 \$13,588 82 \$34,214 85 \$164,616 76
		\$5 49 13,582 83	\$13,588 32
			\$14,057 08
# 1 85 85		5 18 18,896 60	\$13,904 78
		\$3 10 22 51 14,286 67	\$14,262 28
		4 50 50 8 39 \$45 17 16,680 13 12,010 26 18,469 18 18,469 18	\$12,875 78
		\$1 00 19 81 13,493 88	\$18,514 14
		\$45 17 12,010 26	\$12,055 48
			\$16,644 15
1893-9	1896-9 1897-9	1898-99 1899-00 1900-01	Total.

The amount expended for the Pumping Works to July 1st, 1901, is as follows:

ITEMS.	Previously Expended.		July 1st, 1901.	Total.	
Land	\$88,831	44		\$38,831	44
Force Mains	624,058	80		624 ,058	08
Inlet Pipe	97,303	40	\$2,623 86	99,927	26
Dock, Basin and Canal	148,502	25	368 26	148,865	51
Conduits and Wells	81,461	70	39,208 43	120,665	18
Engine, Boiler and Coal			00,000 10	-	
Houses	217,800	41	27,429 00	245,229	41
Stand Pipe and Tower	31,574	16		31,574	16
Pump Wells	54,221	56		54,221	56
Engines	359,338	87	910 00	360,248	87
Boilers.	88,272	25	7,479 02	95,751	27
Engineer's House	8,139			8,139	75
Sewers	6,666	25		6,666	25
Electric Light Plant	2,781	19		2,781	19
Grounds, Fences and Gate-	,				
way	153,562	02	5,518 06	159,080	08
Inspection	8,061			8,061	
Miscellaneous	15,912		1,740 31	17,652	65
Library, Greenhouse and	,		-,		
Belvedere	84,589	55	l	84,589	55
New Gallery				8,249	
Travelling Crane			2,240 00	2,240	
•					
Totals	\$1,965,576	89	\$95,756 04	\$ 2,061,3 3 2	48

Water Works Bonds.

The following table shows the whole history of the bonded indebtedness of the Board, in which it will be seen that the total amount of bonds issued is \$1,950,000, of which \$917,000 have been redeemed, leaving outstanding \$1,033,000.

The \$100,000.00 seven per cent. bonds which matured September, 1899, and \$100,000.00 seven per cent. bonds which matured February 1st, 1900, were on the latter date refunded at three and one-half per cent.

No. of Issue.	Acr OF	Issued.	Payable.	AMOUNT.	RATE OF IN- TEREST.	REDEEMED OR REFUNDED	OUT- STANDING
1st	1858	Aug. 1, 1858	Aug. 1, 1888	\$100,000	7cts.	\$100,000	
**	"	** **	Aug. 1, 1878	100,000	7 "	100,000	
66	44	" "	Aug. 1, 1878	50,000	7 "	50,000	
2nd	1855	Aug. 1, 1855	Aug. 1, 1890	100,000	7 "	100,000	
**	**	June 12, 1855	Aug. 1, 1885	100,000	7 "	100,000	
**	44	" "	Aug. 1, 1880	50,000	7 "	50,000	
8rd	1857	Aug. 1, 1858	Aug. 1, 1898	150,000	7 "	150,000	
44	44	Aug. 1, 1867	Aug. 1, 1887	100,000	7 "	100,000	
4th	1869	Feb. 1, 1870	Feb. 1, 1900	100,000	7 "	100,000	ļ
5th	"	Aug. 1, 1872	Aug. 1, 1902	50,000	7 "		50,000
6th	"	Aug. 1, 1878	Aug. 1, 1908	50,000	7 "		50,000
"	1878	Feb. 1, 1874	Feb. 1, 1904	50,000	7 "	9,000	41,000
7th	1869	Aug. 1, 1874	Aug. 1, 1904	50,000	7 "	6,000	44,000
44	1878	" "	* :	200,000	7 "		200,000
44	"	June 1, 1875	June 1, 1905	150,000	7 "	1.000	149,000
**	"	June 1, 1876	June 1, 1906	200,000	6 "	1,000	199,000
44	16	Sept. 1, 1880	Sept. 1, 1899	100,000	4 "	100,000	l
**	46	April 1, 1881	April 1, 1897	100,000	4 "	100,000	
44	66	Dec. 1, 1881	Dec. 1, 1896	50,000	4 "	50,000	l
**	**	Jan. 10, 1895	Jan. 10, 1925	100,000	4 44.		100,000
Refund	1869 1873	Feb. 1, 1900	Feb. 1, 1980	200.000	8‡"		200,000
				\$2,150,000		\$1,117,000	\$1,088,000

Estimated Valuation of the Works.

Real estate\$ 441,871	75
Buildings, docks, basins, conduits, engines, etc., at	
Pumping Station 1,795,569	6 8
Water pipe in use	94
Meters in use 99,077	75
Office furniture and fixtures	00
Tools and materials on hand:	
In office of Supt. of Construction	00
In office of Civil Engineer	42
In Inspection Department	00
In Meter Department	14
In Pumping Works Department 16,413	65
In Hurlbut Fund Department	70
At storage grounds	76
Total	79

All of which is respectfully submitted:

BENJ. F. GUINEY,

Secretary.



REPORT OF THE GENERAL MANAGER.

Detroit, July.1, 1901.

To the Board of Water Commissioners of the City of Detroit:

Gentlemen:—I respectfully submit a report of the general operations of the works for the year ending December 31, 1900, and of the first six months of the year 1901.

The change in the commencement of the year of the Board from January 1st to July 1st, to correspond with the fiscal year of the various other commissions and city officers, necessitates including in the reports of the heads of the several departments operations covering eighteen months.

The assessment rolls of water rates show a gain in assessments for the year to July 1, 1900, over the preceding year of \$45,768.75; the gain July 1, 1901, over the year to July 1, 1900, was \$9,982.31.

In June, 1900, the rates for unmetered water were increased about 20 per cent, to take effect July 1, 1900. Meter rates were adopted as follows: Quarterly rate, first 30,000 gallons, \$1.75; all in excess of 30,000 gallons at two and one-quarter cents per 1,000 gallons; minimum rate, \$1.75. This was, to a large extent, made necessary by the act providing for assessing abutting property for the cost of laying water mains, being declared invalid.

The increase of families to July 1, 1900, over the previous year was 1,555, and the increase to July 1, 1901, over the year 1900, was 1.721. A reference to the assessment table in the report of the Secretary, shows in detail the number of families assessed in each ward and district, vacant tenements,

the number of families in the city unsupplied and increase of assessments.

The amount received for metered water for the eighteen months, from January 1, 1900, to July 1, 1901, was \$148,-163.16, of which amount the Village of Delray paid \$6,390.36, the Village of Highland Park paid \$837.72, and the Village of River Rouge paid \$107.65.

The total number of gallons of water pumped for the year 1900 was 17,077,100,477, an increase over 1899 of 729,037,776 gallons. The amount pumped during the first six months of 1901 was 8,849,732,755, making a total pumpage for the eighteen months of 25,926,833,232 gallons, of which 159,766,816 gallons were supplied to the Village of Delray, 20,698,656 gallons to the Village of Highland Park, and 2,297,856 gallons to the Village of River Rouge. Meters are placed on the mains at the city line between these villages, and the city receives double the city rate for all water supplied.

The per capita daily consumption for 1900 was 153 gallons, an increase of six gallons over 1899. The per capita for 1897 was 125 gallons, for 1898 was 135 gallons, 147 for 1899, 153 for 1900, and 163 for the first six months of 1901. Since 1898 comparatively few meters have been placed, and I believe the increased per capita each year is largely due to this fact. The enormous waste in Detroit is apparent by comparison with the quantity of water consumed in the City of Milwaukee, the population of that city, as shown by the census of last year, being but 200 less than this city. Presumably the uses for water are the same in each city. Milwaukee has 68 per cent of taps metered; Detroit has 10 per cent. In 1900, the per capita in Milwaukee was 88 gallons; in Detroit it was 153 gallons; a difference of $42\frac{1}{2}$ per cent.

At a meeting of the Engineers' Society, of London, Eng., held last spring, after an exhaustive discussion of the subject, the almost unanimous opinion prevailed that 50 gallons was a very generous per capita. This amount may not be suffi-

cient for American cities, where different conditions prevail, but certainly 100 gallons should be a liberal consumption. The cost of fuel per million gallons pumped in Detroit last year was \$1.48. It certainly is not "good business" to expend large sums of money to pump water to be wasted.

In considering the subject of waste, the matter of house to house inspection deserves consideration. During the last three years, on account of the inspectors' time being taken up with other work, it has been impossible to give proper attention to house inspections for leaks. While inspection of private premises causes annoyance and irritation to our citizens, it seems, at present, a necessity. Great objection is made to admitting strangers into premises, and although the inspectors are provided with proper credentials showing their authority, many complaints have been received that men, claiming to belong to the water department, have gained admission to premises only to attempt to sell filters, attachments, etc. It is not advisable here to enter more fully into the many objections to this system. This condition has a bearing on the meter question, as it could be remedied by the placing of meters on all premises supplied with fixtures. Leaky fixtures will soon be repaired when payment for the waste is required.

The Supreme Court of the State decided adverse to the Board in suit brought to compel the Park Commission to pay for water furnished them for park and boulevard purposes, holding that this Commission, being one of the departments of the city, could not collect for water used by other city departments. The decision further stated, however, that the Board was not compelled to furnish water for municipal purposes without payment therefor.

The Court also (June 5th, 1900), in the case of the Cook Farm Co. vs. the Board of Water Commissioners, held invalid the act providing for assessing abutting property for the cost of laying water mains. Pipe had been laid under this law, and assessments levied against abutting property

for same, amounting to the sum of \$67,694.75, of which the sum of \$13,992.65 had been collected. This amount the Board returned to the City Treasurer, by whom it was refunded to the persons entitled thereto.

Storage Grounds.

By the opening of Orleans street through the grounds they have been divided into two separate yards. About six hundred feet of fencing is now being constructed, at an estimated cost of \$325.00, for the proper protection of the property stored on the grounds.

I recommend that the east yard be used only for the storing of pipe and large castings. This would do away with the necessity for an extra watchman.

A pattern house, for the storage of patterns belonging to the Board, is nearing completion. These patterns are valued at \$5,000.00, and are at present stored at various foundries about the city. The need of this building for their proper care was imperative.

A portion of the building has been arranged as a tool room, by means of which a more perfect system of checking the issue and return of tools can be carried out.

Pumping Works.

The foundation for the addition to the engine house has been completed, and contract for the superstructure, amounting to the sum of \$69,021.00, has been made. This work is progressing rapidly. The roof is required to be in place by October 1st, 1901, and the entire work completed by December 1st, 1901.

A contract was made in September, 1900, with the Edward P. Allis Company, of Milwaukee, for furnishing and erecting two twenty-five million gallon triple expansion pumping engines complete, for the sum of \$276,000.00. The





first engine will be shipped about January 1, 1902, and it is expected to be ready for operation about June 1, 1902. The second engine is to be delivered within six months from that date.

The four vertical safety water tube boilers, of 225 horse power capacity each, contracted for in 1899, were completed in the spring of 1900, and have been in service since that time, giving good satisfaction. The connecting steam pipes were covered with asbestos covering, at a cost of \$220.00.

The old galleries in engine house were removed and new galleries, with crane track, were constructed on side and rear walls, at a cost of \$8,150.00.

A 20-ton hand crane was erected at a cost of \$2,390.00.

During a severe storm of August 20, 1900, the roof was badly damaged, and was repaired at a cost of \$208.06.

The entire building, both inside and out, is badly in need of repainting, but would recommend that this work be not done until completion of the addition.

December 24th, 1900, shaft of Engine No. 2 broke. Fortunately, the old shaft taken from Engine No. 1 the previous year, had been put in condition for an emergency of this kind, and much delay was saved by this foresight. The wisdom of building the conduit, in 1899, connecting Engines Nos. 2 and 3, was apparent during this period.

A new conduit, with well, west of conduit No. 2, from the settling basin, to connect with the conduit system, has been completed, and conduit No. 2 is being rebuilt. Substantial concrete docks have been constructed at their intakes. Details of this work will be found in the report of the Civil Engineer.

Intake pipe No. 3 was found to be in bad condition, and repairs were made at a cost of \$1,654.00.

The park grounds have been kept in first-class condition, the floral display attracting wide attention. A large amount of sodding and regrading has been done, especially covering the section of the park from the Engineer's residence to the

river front. The foot and carriage bridges have been painted and repaired, and are in good condition. The water closets in the tower have been replaced by those of more modern pattern. This will permit the lavatories to be kept open during the winter, without danger of freezing, for the convenience of skaters.

The Hurlbut Memorial Library, which is also being operated as a branch of the Detroit Public Library, has become a great convenience to the people living in the eastern part of the city. Públic Library books were circulated from there during 1900, as follows: January, 115; February, 204; March, 346; April, 484; May, 643; June, 503; July, 438; August, 383; September, 368; October, 491; November, 496; December, 529; during first six months of 1901, as follows: January, 775; February, 790; March, 830; April, 625; May, 462; June, 429.

Reference books were used in library as follows: 1900—January, 154; February, 220; March, 162; April, 310; May, 143; June, 127; July, 240; August, 295; September, 307; October, 487; November, 720; December 528; 1901—January, 640; February, 654; March, 596; April, 431; May, 392; June, 423.

The library is most frequented between the hours of 3 and 6, and 7 and 9 o'clock p. m., although there are many visitors during the entire time it is open.

The following table shows the quantity of water pumped each year, from 1852 to 1901:



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****	- Families	WATER PUM	IPED.		
YEARS.	Supplied.	TOTAL QUANTITY.	PER FAMILY.		
852	1	235,840,275			
853		808,531,743	70,86		
854		876,265,126	81,46		
855		542,807,364	102,76		
856		692,124,805	121,29		
857		697,190,528	112,65		
.858		718,091,207	110,91		
859		782,112,587	115.11		
860		870,036,451	125.18		
861		895,129,423	125,57		
862		994,945,829	186,76		
863		1,035,798,048	184.53		
864		1,019,890,256	127,41		
865		1,040,514,887	125,67		
866		1,196,317,922	181,62		
867		1,425,585,230	139,18		
868	11,544	1,666,545,125	144,86		
869		1,946,810,325	152,40		
870		1,866,060,068	136,00		
871		2,300,150, 60 5	154,41		
872		2,782,292,578	178,51		
878		8,198,898,948	187,98		
874		3,289,872, 68 5	174,51		
875		4,207,454,260	214,60		
876	20,102	4,065,134,470	200,22		
877		4,213,239,790	207,09		
878		4,845,743,330	210,92		
879		5.129,599,110	240,34		
880	. 22,465	5,552,965,810	247,18		
881	23,749	6,543,127,968	279,72		
882	25,442	6,284,000,742	243,06		
883	27,415	7.379,327,788	269,17		
884	. 29,424	8,510,614,140	289,26		
885	80,538	9,970,829,580	326,88		
886		10,576,571,254	331,07		
887	34,486	18,168,859,808	381,86		
888		14,380,166,670	390,09		
889		13,875,384,458	328,88		
890	41.467	12,120,944,532	292.80		
891	43,933	12,057,261,286	274,47		
892		12,276,612,482	264,58		
893	49.817	13,877 977,208	278.57		
894		18,649,779,605	278,47		
895		14,698,451,954	285.81		
896		13,254,369,371	245,71		
897	54.945	12,928,821,326	235,30		
898		14.278.682.058	258.48		
899		16,348,062,701			
900		17,077,100,477	277,41		
•••	00,024	11,011,100,411	282,15		

Pipeage System.

You are respectfully referred to the report of the Superintendent of Construction for details of the work done in this department during the eighteen months covered by this report.

The mains have been thoroughly flushed during this period, and dead ends blown off at least twice each month. I recommend that dead ends be cured wherever possible. Gates have been systematically examined and repairs made when necessary.

The total mileage of the distribution system July 1, 1901, was 571 miles and 2,792 feet, of which 10 miles and 5,267 feet were laid from January 1, 1900, to July 1, 1901; 4 miles and 2,575 feet were laid in the city, 1,557 feet in Delray, 6 miles and 820 feet in the Village of River Rouge, and 315 feet in the Township of Greenfield. The entire cost of laying pipe in these villages was paid by said villages, the Board receiving therefor the sum of \$30,807.12, of which the Village of River Rouge paid the sum of \$29,370.79, the Village of Delray paid the sum of \$1,182.17, and the sum of \$254.16 was paid for pipe in Greenfield.

Two serious breaks occurred in the system during 1900, one, September 12th, on the 42-inch line, at the corner of Mt. Elliott and Congress; and the other, November 1st, on the 30-inch line at the corner of Buchanan and Twenty-seventh streets. The employes in the iron pipe department are entitled to much credit for the able manner in which these breaks were handled.

Data Detroit Water Works, 1900.

System of water works: Direct pressure. No reservoir.

Source of supply: Detroit river. Number of pumping stations: One.

Type of pumps: One 30,000,000 Comp. Beam Two 24,000,000 Comp. Beam. One 24,000,000 triple Allis. Total capacity, daily, 102,000,000 gallons.



Area of city: 29 square miles.

Population: Census 1900, 285,704. Supplied (estimated city

and suburbs), 306,055.

Pumpage 1900: 17,077,477,000 gallons.

Consumption, gallons, unmetered: 13,253,847,349. Consumption, gallons, metered: 3,823,253,128. Average daily consumption: 46,786,576 gallons.

Consumption per capita: 153 gallons. Revenue unmetered water: \$216,423.90. Revenue metered water: \$92,961.32.

Revenue per 1,000 gallons metered water: \$.024. Revenue per 1,000 gallons unmetered water: \$.016.

Number of meters (July 1, 1901): 5,635.

Kind of coal used: Bituminous coal, run of mine.

Price per ton: \$3.29 in sheds.

Total cost of fuel consumed (including heat and light of library and greenhouses) \$25,398.50.

Average head against pumps in feet: 115.

Number of miles mains: 570. Number fire hydrants: 3,332. Service taps (July 1, 1901): 57,234.

Gates: 6.875.

City Water Supply.

The purity of the water supply is of so much importance to the public that the following extract from the report of the Board of Health for the fiscal year 1900, together with its report of examination of the supply for the month of June, 1901, is submitted:

"For nearly four years past systematic chemical and bacteriological examinations of our water supply have been made each month, the results of which appear in the annual reports of this department. The variations in the samples analyzed during the past year have not been greater than in previous years, and in no case were results obtained which would warrant an unfavorable report. I do not believe that any typhoid fever has come from our water supply, during the last few years at least. Our death rate from that disease has certainly been remarkably low in comparison with that of other American cities. For the years ending in June,

1898, 1899 and 1900, Detroit's typhoid fever death rate per 10,000 population was 1.60, 1.83 and 1.70 respectively.

"Examination of Detroit's water supply for the month of. June, 1901:

Appearance clear. Parts per	million.
Total solids	104.6
Volatile matter	35.6
Non-volatile matter	69.0
Free ammonia	.008
Albuminoid ammonia	.068
Nitrogen as nitrates	.099
Nitrogen as nitrites	.000
Chlorine	2.85
Oxygen absorbed in 15 minutes	.36
Oxygen absorbed in 4 hours	.68
Bacteria per cubic centimeter June 7th, 1901	47.
Bacteria per cubic centimeter June 8th, 1901	29.
Bacteria per cubic centimeter June 10th, 1901	110.
Bacteria per cubic centimeter June 11th, 1901	88.
Growth in 2 per cent. carbo gelatin: None.	
Conclusion: Water is in very good condition, indeed."	,

All of which is respectfully submitted,

H. S. STARKEY,

General Manager.

REPORT OF THE CIVIL ENGINEER.

Detroit, Mich., Aug. 1, 1901.

To the Honorable the Board of Water Commissioners of the City of Detroit:

Gentlemen—As required by the regulations, your Civil Engineer presents the following report, covering the operations of the Engineering Department for the period of eighteen months from Jan. 1, 1900, to June 30, 1901:

Distribution System.

The division of the distribution system into upper and lower pressure districts to correspond with the elevation of the ground, has been accomplished, as directed by the Board. The dividing line crosses Woodward avenue at the intersection of Canfield avenue and follows approximately a contour line 50 feet above the mean level of Detroit River, dropping a little below in the northwestern, and keeping a little above in the northeastern portion of the city, in order to compensate in a measure for the difference in frictional loss due to the varying distance from the pumping station. The upper system contains approximately 116½ miles, and the lower 453½ miles of cast-iron distributing pipe, making a total of 570 miles in service (Jan. 1, 1901).

The division required the actual separation of the two systems at 47 points and supplementary work at 27 others, making a total of 74 street intersections at which alterations were necessary. This work was commenced Sept. 13 and completed Dec. 6, 1900.

The high pressure system is now temporarily supplied through the Mack avenue 42-inch main, pending the completion of the high service main from the pumping station to the intersection of Collins and Superior streets, upon which work has been begun, and the erection of two 25-million Allis pumps, already contracted for. This is the most radical change and the largest improvement undertaken since the removal of the works from the foot of Orleans street to the present location in 1874-81, and the final abandonment of the reservoir in 1886.

Flushing has been carried on quite extensively from time to time, but not as thoroughly as during the two previous years. The large mains were found generally in better condition than one year ago, but the small pipes contain considerable deposit and are often quite foul. No record has been kept of the quantity of water used or mud removed. In the future general flushings, to be most effective, should be conducted in May and June of each year. The pipes will thus be cleaned after the period of roily water which occurs in the spring, and before the period of excessively hot weather when a majority of bad water complaints are received. Moreover, the full capacity of the mains will thus be made available during the period of hot weather consumption just when most needed to reduce the frictional loss.

The fire protection facilities in the northeastern manufacturing belt will be materially improved when the line of 8-inch and 10-inch pipe ordered laid on Harper avenue from St. Aubin to Russell street shall have been completed.

The Village of River Rouge, lying southwest of the Village of Delray, and having an estimated population of 1,700, was granted permission by the Board to lay a distribution system, to be supplied with water from the City of Detroit in accordance with the recommendations, plans and estimates of the Engineering Department in May, 1900. The work, including 5_{70}^{7} miles of 8-inch, 6-inch and 4-inch pipe, was successfully executed by the superintendent of

construction, James H. Barry,* at a cost considerably below the estimate, all being completed and meters set on Sept. 5, 1900. The supply is taken from the Delray system, and passes through two 4-inch Thomson meters and a submerged 8-inch line with flexible joints laid under the River Rouge. An 8-inch valve of special design, which opens automatically when the loss of head through the meters exceeds 8 lbs. and closes again when the loss is reduced to 5 lbs., is set in the main line to save the meters from damage and prevent the possibility of short supply during fires. Fire pressure is obtained from the Delray fire pump.

Population and Consumption.

The daily consumption of water, range of temperature and rainfall is graphically shown on plate No. 1.

The total quantity of water pumped is given in detail as follows:

•	1900 12 Months, January to De- cember inclusive.	1901 6 Months, January to June inclusive.
City of Detroit, unmetered	18,253,783,749	6.786,110,701
City of Detroit, metered	3,712,231 996	1,993,148 476
Village of Delray, by meter	95.719,765	63 063,442
Village of River Rouge, by meter		1,520,884
Village of Highland Park, by meter	14,808 904	5,889,752
Totals, gallons	17,077,100,477	8,849,782,755

^{*} Died February 16th, 1901.

[†] Four months only, beginning September 5th.

The population statistics are as follows:

CITY OF DETROIT.

	Total population, U. S. census 1900	285,704
	Total families in city, Water Works count, June 1900	60,601
	No. of persons per family—285,704÷60,601	4.715
	No. of families supplied outside city limits	259
	No. of families not supplied in city	136
	Net No. of families supplied	60,724
1900.	Est. No. actual consumers-60,724×4.715	286,317
	Total families in city, Water Works count, June,	62,246
	No. families supplied outside city limits	287
	No. families in city not supplied	102
	Net No. families supplied.	62,431
1901.	Est. No. actual consumers—62,431×4.715	294,362
	VILLAGE OF DELRAY.	
	Reported total population, U. S. census 1900	4.573
	Total families supplied, books of Village Clerk.	-,
1000	June, 1900	493
1900.	Est. No. actual consumers—493×4.715	2,324
•	Total No. families supplied, books Village Clerk,	765
1001	1901 Est. No. actual consumers—765×4.715	3,607
1901.	he village plumber estimates that about one-quarter	
	les still take water from wells which checks above	
	closely.	притер
1013	VILLAGE OF RIVER ROUGE.	
	,	1 7/10
	Population by U. S. census 1900 Est, total population, Village Clerk, June, 1901	1,748 1.900
	Total No. families supplied, Village Clerk, June,	1.500
	1901	175
1900.	Est. No. actual consumers.	435
1901 .	Est. No. actual consumers—175×4.715	825
	VILLAGE OF HIGHLAND PARK.	
	Total population U. S. census 1900	427
	Est. No. persons supplied, 1900, 73 taps	423
	Est. No. persons supplied, 1901, 78 taps	452
	man and beneath asking and to safetilities	

From the foregoing data, the following table is prepared, giving the average daily and per capita consumption:

CITY.	TIME.	U. S. Census, 1900.	Total Population Supplied.	Total Average Population U. S. Gallons Supplied. Daily.	Gallons Daily perCon- sumer.	REMARKS.
÷	(12 months, 1900 285,704	285,704	286,317	46,482,235	162.8))
	6 months, 1901		294,862	48,504 195	164.7	∫ cury.
	(12 months, 1900	4,573	2,324	264,058	113.6	Sewers; manufactories; small
Jest & 3	6 months, 1901	:	3,607	858,141	6.79	bouses.
Direct Desired	(4 months, 1900*	1,748	435	4,753	10.9	No sewers: no manufactories:
Mar Muge	6 months, 1901		825	8,400	10.2	small houses.
Highland Dark	(12 months, 1900	427	428	40,572	95.9	Sewers: modern houses and
nignianu raik	6 months, 1901		452	32,540	71.9	fatures.
el este de	(12 months, 1900 292,462	292,462	289,499	46.786,577	161.6	
TOTAL STATE OF THE	8 months, 1901		299,246	48,898,551	163.4	٠

* 117 days only.

Pressures.

The hourly record of pressures taken at various engine houses throughout the city is one of the most important branches of work carried on by the Engineering Department. This is especially true since the division of the system into upper and lower pressure districts.

Several new gauges have been set and great care taken to have all gauges, including those at the pumping station, tested from time to time to insure accurate results. No. I gives the average daily water pumped for each month and shows the corresponding pressure and frictional loss occurring at each gauge point. It will be observed that since the division of the system the pressure in the upper district has been increased an average of nearly 3 lbs., varying from 11 to 5 lbs. No complaints of short supply have been received from this district since the division was made. There is, however, a marked falling-off of pressure in the extreme western portion of the city, especially during periods of maximum consumption. To further study the needs of this district and the best methods of meeting them. Table No. 2 is given showing the conditions existing at periods of maximum and minimum consumption, and for the month of July, 1901. Attention is called to the last column in particular, which gives the frictional loss between the pumping station and the various gauge points, as observed on Monday, July 1, 1901, from 7 to 8 o'clock p. m.

During this hour the consumption was at the rate of 89,071,920 gallons per day, or about 83 per cent in excess of the average for the first six months of 1901. The effect, however, upon the frictional loss between the pumping station and the gauge in Engine House No. 15, at Hubbard and Fort streets, was an increase of 135 per cent from the yearly average of 13.58 lbs. to 32.84 lbs. With so much pressure consumed in friction it is not possible to supply water to the upper stories of buildings and factories in the extreme southwestern portion of the city, and numerous



Ħ an 1.21 4.64 4.69 5.80 5.65 6.11 6.14 95.72 95.78 95.64 Mean 93.92 93.14 93.86 94.30 94.75 94.98 95.01 94.80 94.61 94.19 93.93 93.86

complaints have been received during the recent summer months.

The frictional loss is increasing and the available pressure decreasing year by year, as is clearly shown in the following short table:

	Lbs.
Avg. frictional loss between Pump. Sta. and Eng. No. 15,	
July, 1899	13.13
Avg. frictional loss between Pump. Sta. and Eng. No. 15,	
July, 1900	14.92
Avg. frictional loss between Pump Sta. and Eng. No. 15,	
July, 1901	17.50
Lowest pressure recorded at Eng. No. 15 (hourly readings),	
July, 1899	21
Lowest pressure recorded at Eng. No. 15 (hourly readings)	
July, 1900	19
Lowest pressure recorded at Eng. No. 15 (hourly readings),	
July, 1901	15

It is thus clearly indicated that the increasing difficulty is due to a steady increase in the development and demand for water in the district under consideration, and it is evident that something must be done to relieve the situation.

Experience has shown that a constant pressure of about 27 lbs. should be maintained at the water office, and this practice should not be changed. The effect, therefore, of turning the 42-inch Mack avenue main into the lower system upon the completion of the high-pressure main will be to decrease the frictional loss between the pumping station and the water office by about 5 lbs. during the period of greatest consumption. The pressure at the pumps will thus be reduced from a maximum of about 60 lbs. to 55 lbs., which is highly desirable but which will afford no relief to the district in question.

A further study of the gauge readings shows that while the pressure in certain localities may be increased by opening gates which are now throttled, no material relief can be expected in the extreme southwest except at the expense of other territory. For a closer examination, let the distance between the pumping station and Eng. No. 15 be divided into two sections as follows:

	FRICTIO	NAL LOSS OBSERVED.			
	Average Consumption, 48,898,551.	Maximum Consumption, 89,071,920.	Per cent. increase, 83 per cent.		
Pumping Station to Water Office	8.37 lbs.	15.93 lbs.	92 percent.		
No. 15		16.91 lbs.	224 per cent.		

From which it is seen that an increase of 83 per cent in the total quantity of water pumped caused an increase of 92 per cent in the frictional loss between the pumping station and the water office, and 224 per cent between the water office and Hubbard avenue, which demonstrates that additional carrying capacity is required in the latter section, and that the full capacity of the 24-inch line laid out Michigan avenue in 1893 has already been reached. It is therefore recommended that a new main be laid on a route to be selected from Sixth and Congress to Fort and Vinewood avenue, a distance of about 9,400 feet. For this line a pipe 24 inches in diameter would meet the present requirements and give relief for at least a few years. It is believed, however, that the prospective future growth would justify the Board in laying a pipe not less than 36 inches in diameter, and this size is recommended. The total cost, subject to market prices, is estimated at \$75,000. Until such a pipe is laid, complaints of short supply will continue to be received from the western district during periods of greatest demand.

Conduits and Proposed Tunnel.

The urgent need of additional capacity in the conduits leading from the settling basin to the pumps was demonstrated in the fall of 1900, when it was found impossible to

AY	MIN	SUMME 7 26, 190 ALLONS 074,34 unday.	1	MINIMUM WINTER DAY March 81, 1901 GALLONS 39,613,280 Sunday,				MONTH OF JULY, 1901 GALLONS Daily Average 55,025,594				MAXIMUM HR. 088'VED July 1, 1901 GALLOWS 3,711,330 D'y Rate 89,071,920 7 to 8 p.m. Monday.			
ic. 988	Pre	ssure	, lbs.	Fric.	88		Fric.	Pr	ssure	, lbs.	Fric.	Max. Pres- sure	Pres- sure	Fric.	
8.	High	Low	Av'ge	lbs.	High	Low	Av'ge	lbs.	High	Low	Av'ge	lbs.	7-8 p. m.	Av'ge	lbs.
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.28	19	14	17.21	2.43	20	16	17.63	2.88	25	15	18.96	6.46	19	17.50	12.6

supply the pumps with sufficient water and at the same time make the necessary repairs and alterations required by the enlargement of the station. A circular, three-ring brick conduit, 5 feet 2 inches inside diameter, laid in Portland cement mortar, has therefore been constructed from a new concrete dock at the settling basin to a junction with the old 5-foot conduit supplying Engine No. 4. The center line of new conduit is parallel to and 12 feet east of the west line of west coal shed extended, and the total length from face of dock to center of old conduit is 182 feet 10 inches. The inside top of conduit is laid to grade, elevation 79 feet city datum, the surface of the ground being 100 to 102. This depth was required in order to obtain good soil for tunneling and permit branches to pass under old conduits. It is also believed to be sufficient to meet any conditions which may arise should filters be built. The dock contains an inlet chamber 10 feet in diameter, from the bottom of which the conduit begins. The conduit contains a junction chamber 12 feet in diameter and a strainer well 18 feet in diameter, with necessary gates. From the junction chamber two branches 5 feet 2 inches diameter are taken, one 61 feet long to the west strainer well supplying Engines No. 1 and 2, and one 61 feet long to a new well to be built on line of old conduit, supplying the same engines. This work, including tunneling, although difficult, and in treacherous soil, was completed without serious accident.

One expensive delay was caused by the failure of a temporary brick bulkhead, the cement being washed out of the joints by the water pressure which came on before the mortar was sufficiently set. The tunnel was flooded and the services of a diver required before work could be resumed. Repairs on the old conduit supplying Engines No. 1 and 2 have been begun, and will include a new concrete dock similar to the one just completed.

This work is all a part of the general plan which includes the proposed 10-foot tunnel, for which specifications are being prepared. When completed and the ground graded the north end of the settling basin will present a neat and finished appearance.

Water Levels.

The extensive improvements at the pumping station, both present and proposed, made necessary a study of the fluctuations in the height of water in the Detroit River. The Water Board records are probably the most complete in existence, and as they have been compiled, corrected, and put in presentable form at the expense of considerable labor, they are here presented in tabular form with full explanatory notes for preservation and convenient reference.

The observation of 1819 was made by Major Henry Whiting, those from 1830 to 1850 by A. E. Hathon, City Surveyor; they may have been single readings, but were probably the mean of several. "The observations made before the engine house was erected were made with reference to a known point, and were afterward referred, by calculation, to the present base" (An. Rept. 1855, p. 10). The engine house referred to was probably the one erected in 1849 at the foot of Orleans street. The 1853 observations were taken on the first of the month given, except December, which is the mean of the 1st and 31st (An. Rept. 1853, p. 18). From 1854 to 1877 inclusive, daily readings were taken by the engineer at the pumping station at the foot of Orleans street.

From 1854 to 1862 inclusive the highest and lowest readings for each month were published yearly (An. Repts. 1854-62), and in the report of 1867 all high and low readings from 1861 to 1867 inclusive are tabulated. Slight changes have been made in the table as published in 1867, for the years 1861 and 1862, to make it agree with the Annual Reports for those years.

The base to which levels were referred was the water table of the engine house at the foot of Orleans street, which

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made daily. The only existing records of those made before

table of the engine house at the foot of Orleans street, which

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was assumed to have an elevation of 100 feet. The present city levels are referred to the same datum plane as this bench mark and have been ever since it was established. The elevation of engine house water-table by U. S. levels, 1877, was found to be 580.30 above mean tide, N. Y. Harbor.

Until 1877 the zero of gauge remained at an elevation of 100.00 feet, but about this time the gauge was moved from the foot of Orleans street to present pumping works and fastened to a small wooden dock at the head of canal, where the present Belvidere is situated. No record exists of the date, level notes or circumstances connected with this change, although D. Farrand Henry, under whose direction the survey was made, stated in 1900 that a closed line of levels was run which checked reasonably well? Between 1893 and 1897 six careful lines of levels were run from the U. S. B. M. "Detroit," at the foot of Mt. Elliott avenue, to the Hurlbut Memorial Gateway, and the elevation of the zero of the gauge was determined five times, making its elevation 100.477. The U.S. engineers, after an investigation ot these records, comparing them with their own readings obtained at various points, conclude the "change in elevation of zero of Water Works gauge from 580.30 to 580.78 did not all take place when gauge was moved in 1878, and no important change is apparent between 1875 and 1881. The change may have been gradual from 1882 to 1886, and probably all of it had taken place by 1889."

In preparing this table, however, it was assumed that an error of 0.477 feet was made in moving the gauge in 1877, and that the gauge had remained at a constant elevation of 100.477 from January, 1878, until tested in 1893, and all figures here published are upon that basis.

In June, 1899, during the construction of the Belvidere, the gauge was again moved and was reset with its zero at an elevation of 100.617, where it still remains.

It is believed that all observations since 1854 have been made daily. The only existing records of those made before

August, 1865, are found in the Annual Reports. Since the latter date two readings have been taken each day, morning and evening, and readings are on file in this office.

The "High" column gives the highest single elevation observed during the month. The "Low" column gives the lowest single elevation observed during the month. The "Mean" column, the average of two readings a day for the entire month. Figures in bold faced type give the highest and lowest single elevations observed during each year. The highest recorded elevation of the river since 1819 is 97.8 feet on December 19–20, 1876, and the lowest recorded elevation is 89.9 feet, on February 11, 1896. All elevations given in table are referred to present city base.

Drafting Room.

The work in the drafting room during the past eighteen months has been unusually heavy, owing to the several undertakings of considerable magnitude that have been projected and that are now either completed or in the course of construction. The engineering work incident to these, in connection with the general routine work of the office, has constituted the greater part of the labors of this department. The following items show in brief some of the work done during the period:

- 1. Determination of the flow of water in the various large mains by Pitot tube, and the regulation of same in order to equalize pressures.
- 2. Estimates of cost of all proposed work, including petitions for pipe, conduits, extensions and engineering structures of various kinds.
- 3. Design of all gates, valves, specials, pipes, conduits and wells used or constructed and careful foundry inspection of all cast-iron and composition castings, and machine shop inspection of all finished work. This work, owing to its

extent and nature, has required more than usual care and fidelity.

- 4. Accurate field records of all pipes and specials laid, including the distribution system of the Village of River Rouge and the work at the pumping station.
- 5. Necessary surveys and levels for all construction, including a complete survey of the proposed route for a pipe line from Detroit to supply the Wayne County House and the Villages of Wayne and Dearborn, also levels and survey connected with conduits and high-pressure main.
- 6. Drawing and keeping posted to date tracings of each street intersection in the city, showing size and location of all water pipes and such other construction as is likely to affect the repair, alteration, or extension of water pipes.
- 7. Complete records of the quantity of water used daily for ordinary and fire consumption, together with the pressures throughout the city and the reduction and tabulation of same.
- 8. Making and posting maps, plats, plat books, atlas and inspection maps.
- 9. Furnishing each Water Works foreman and tapper and each Detroit Fire Department foreman with a sectional map of the city and suburbs, 43 sheets, scale 300 feet to one inch, showing all water pipes, with sizes, gates, hydrants, reservoirs, sprinkling hydrants and blow-offs.
- 10. River survey, including daily observations of temperature and turbidity during summer of 1900, and borings on route of proposed tunnel.
- 11. Special investigations and reports on the subject of water-hammer, breaking of pipes under pressure, tunnel, and proposed extensions outside of limits.

In conclusion, attention is called to a technical paper of joint authorship published in the May number of the Proc. Am. Soc. C. E., and to be presented before that society at New York City on Sept. 4, 1901. This paper describes in detail, and at some length, experiments conducted at Detroit on the flow of water in pipes and especially an investigation of the resistance which curves of different radii offer to the flow of water. They are the only experiments of the kind conducted on large pipes, and are of extreme technical interest in that they show, contrary to all heretofore accepted practice and theory both in this country and in Europe, that a curve of long radius offers more resistance to flow than does one of short radius.

The curves experimented upon which gave the least resistance had a radius of 2 to 3 diameters only, instead of 8 to 10 diameters, formerly considered good practice.

As curved pipe costs at present prices \$63.00 per ton and straight pipe only \$22.00, the direct financial benefit to the Board from these experiments was a saving of over \$3,000.00 in the contract for specials required for the 42-inch force main now being constructed.

In submitting this report I desire to acknowledge the many courtesies received from your honorable body and the loyal co-operation of my associates in the work.

All of which is respectfully submitted.

CLARENCE W. HUBBELL, Civil Engineer.



GREENHOUSE, CANAL AND COAL SHEDS.

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REPORT OF SUPERINTENDENT OF METERS AND INSPECTION.

Detroit, July 1, 1901.

To the Board of Water Commissioners:

Gentlemen—In compliance with the rules and regulations of your honorable body, I herewith report the work done in the Meter, Inspection and Service Cocks Department from January 1, 1900, to July 1, 1901:

NUMBER OF METERS PLACED FROM JANUARY 1, 1900, TO JULY 1, 1901.

		-		•	SIZES				
	% in.	% in.	1 in.	1 ½ in.	2 in.	8 in.	4 in.	6 in.	Total
In service Jan. 1, 1900 Placed from Jan. 1 to June 80, 1901	8,1 22 178	1,087 86	829 84	285 26	195 80	82 8	45 4	10	5,555 366
Removed from Jan. 1st to June 30. 1901	8,300 190	1,078 82	918 8 8	26 1	225 15	90	49 8	10	5,921 286
Total number in service June 80, 1901	8,110	1,041	875	254	210	89	46	10	5,685

IN SERVICE JUNE, 80, 1901.

				8	IZES.				
KIND.	5% in.	¾ in.	1 in.	1% in.	2 in.	8 in.	4 in.	6 in.	Total
Thomson	8,065	1,021	798	242	182	78	81	10	5,422
Crown	28	18	87	9	8	7	8.		105
Hersey	1	8	80	2	10	2	8		56
Worthington	8	4	10		9	7	2	 	40
Union Rotary	7		. .	1	1		1		10
Buffalo	1		ļ <i>.</i>						1
Venturi						 -	1		1
Aggregate	8,110	1,041	875	254	210	89	46	10	5,685

Indicators attached to hydraulic elevators. . .

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METERS IN STOCK.

				8	IZ E S.				
KIND.	% in.	% in.	1 in.j	1% in.	2 in.	8 in.	4 in.	6 in.	Tota
Thomson			7 1 8	4 2	5 8 2	8 2	2 1	1	3
Worthington					1	· · · · · · ·			
Aggregate	9		16	6	11	5	8	1	5
Valuation of material on Valuation of tools, etc., . Valuation of horse, wago Valuation of furniture, fi Total valuation of sto	July : ons, et ixture	1, 190 c., J s, etc	1 uly 1 ., Jul	, 1901 y 1, 1	901 .		 	4 2 1	89 29 66 99 78 00 05 00 80 14
Valuation of meters in se			-					100,2	04 7
Deduct 5 per cent for dep Deduct for meters sold	•					-	9 86	5,2	99 60
•	iring	the y	ear fo	or me	ters p	28 laced	9 86	\$94 9	

SUMMARY OF TOTAL AMOUNT EXPENDED IN THE METER DEPARTMENT FOR THE YEARS 1889 TO JULY 1, 1901, INCLUSIVE.

				1	100 10 10 10 10 10 10 10 10 10 10 10 10	201	,	1					
	1889	1890	1881	1889 1890 1891 1892 1894 1895 1896 1896 1898 1898 1899 1900-1 TOTAL	1893	1894	1895	1898	1897	1898	1899	1900-1	TOTAL
Meters \$11,175 00\$18,700 00 \$6,501 50\$12,871 88 \$6,987 48 \$8,884 08 \$9,285 11\$10,485 76 \$7,985 97 \$1,790 75,92,296 70 \$4,172 61\$100,415 78	\$11,175 00	\$18,700 00	\$6,501 55	\$12,871 82	\$6,987 48	\$8,894 06	\$9,285 11	\$10,485 76	\$7,965 97	\$1,790 75	\$2,265 70	54 ,178 61	100,415 78
Supt. and labor, 1,784 10 8,510 57 4,841 49 8,269 17	1,784 10	8,510 57	4,841 49	8,269 17	8,980 46	6,678 20	6,647 89	6,840 08	8,980 45 6,673 20 6,647 69 6,840 08 6,078 78 4,531 11 4,223 54	4,581 11	4,828 54	6,369 45	78,196 86
Material, tools, etc	687 28	2,988 14		872 99 2,182 98 1,650 88 1,888 01 1,884 86 1,085 15	1,650 88	1,888 01	1,884 86	1,085 15	987 90	268	87.5 88	617 71	15,018 58
Freight, hauling, etc	8	408 97	197 11	844 08	165 12	801 18	۲ \$	91 11	93.	18 16	æ	15 00	1,579 98
Horses, wagon, etc			,	E47 94	184 50	388 07	248 60	238 51	880 80	187 50	24.88	881 15	2,685 62
Aggregata. \$18,644 41 \$30,601 68 \$12,418 14 \$22,066 54 \$17,967 56 \$17,013 54 \$17,687 58 \$18,140 61 \$15,001 58 \$7,001 51 \$7,115 66 \$11,406 52 \$192,886 77	\$18,644 41	\$30,601 68	\$12,418 14	\$28,566 24	\$17,967 86	\$17,918 54	\$17,587 85	\$18,140 61	\$15,861 86	\$7,091 51	\$7,115 66	\$11,496 92	\$192,896 77

Since January 1, 1900, we have placed 366 meters and removed 286, making a net increase of 80, which, added to the number in service previous to that date, makes a total of 5,635 in service on July 1, 1901. There are 807 meters on premises that pay by the assessed rates as against 1,113 the date of our last report. One hundred and thirty meters have been removed from such premises and placed on such business places as required metering, and 176 consumers who changed from meter to assessed rates, and where the meters were allowed to remain on the premises, have been transferred back to the meter roll on account of their large consumption. A case in point is that of a private family where their consumption was 435,000 gallons in three months, which by meter rates would amount to \$10.83, while the assessed rate for same length of time was only \$1.78. After placing premises on meter roll the consumption was reduced to 9,000 gallons for three months instead of 435,000 gallons as formerly. This is not an uncommon occurrence on metered premises, and it seems to be the experience of nearly all cities throughout the country, and is causing many of them to adopt the meter system, that being the only practicable way of stopping the enormous waste that is continually taking place. With all service connections metered, the necessity of "leak inspectors" would cease, the meter being the best leak detector known.

The per capita consumption still continues to increase each year since we stopped metering private houses in 1897. In 1900 the per capita consumption was 153 gallons daily, in 1899, 147 gallons; 1898, 135 gallons; 1897, 125 gallons. From 1889 to 1897 the per capita consumption decreased each year (with one exception) as the number of meters increased, which would seem to prove the efficacy of the meter system in preventing waste.

The city of Milwaukee, with a population about the same as Detroit, consumes only 88 gallons per capita, owing to the use of 30,000 meters. Could our city be reduced to the

same quantity we would only have to pump an average of 28,000,000 gallons daily, instead of 48,000,000 as we are now pumping, the difference being enough to supply a city of 225,000 inhabitants.

When meters were first being introduced the idea was that their life would be about ten years, but after the lapse of that time we find those that have been in service that number of years are still just as good as ever, to all appearances. We deducted ten per cent each year for several years for depreciation in value, and later reduced it to five per cent, which amount still seems too high.

A 4-inch meter was removed a few days ago from an abandoned service, and which had been in constant operation for over ten years and had registered over 78,000,000 gallons. It had been repaired but once, the disc having been adjusted and train gear repaired, all of which was done in less than a day. It was tested with a new 1½-inch meter, and on 750 gallons it was only one-half of one per cent slow, and that before anything had been done to it in the way of cleaning or repairs. On a §-inch stream it was about four per cent slow, but after it had been cleaned and adjusted it registered within two per cent on §-inch flow, all of which goes to show that, with a reasonable amount of repairs, the life of a meter is almost indefinite.

Inspection.

No change has been made in this department, the work being done along the same lines as shown in our last report.

The work of the Inspectors increases each year in conformity with the growth of the city, and it will probably be advisable to make some changes in the work assigned them, in order to comply with the many different duties they are now called upon to perform, which (in some wards, at least) is more than one Inspector can accomplish.

The following will show a portion of the work done by the Inspectors since January 1, 1900:

New connections examined	2,065
Extensions examined	1,011
Buildings inspected	4,811
Fixtures inspected	6,655
Let on vacancy, and non-payment	2,253
Let on new connections	1,615
Building tax notices	2,736
Delinquents notified	103,922
Shut for non-payment	1,228
Shut for vacancy	710
Inquiries for collectors	17.542
Meters read	33,236
Meter bills delivered	24,873
Examination for leaks	13,326
Leaks reported	1,766
Shut for leaks	309
Make)	010.059
Total	218,058

Service Cocks.

Nineteen hundred and seventy two (1972) service connections were made since January 1, 1900, and seventy-five (75) were discontinued, making the total number of service connections in the city on the first day of July 1901, 57,237.

Total receipts service cocks department\$6,884 89
Received for labor and material sold
Received for plumber licenses
Receipts for service cocks from January 1, 1900, to July 1, 1901 30,011 00

Possints for complex cooks from Tonuspurt 1000 to Tule 1 1001 PR 811 00

1,972 32 24 TABLE showing the number and sizes of taps inserted in each ward from January 1, 1900, to July 1, 1901. Total. \$6 213 252 : 18 103 တ ۲8° 15 130 **188** \$188 භ · කු කූ ස <u>8</u> 35 35 2 1 55 83 ro es 144 10 WARDS. 111 : a 93 **L83** _ 00 28 8 **జ**శ్శణ 2 ø ~ 31 31 33 8 Ю **8**88 ∞ ∞ 8 8 တ G 6 C4 50 ೩ 168 Aggregate..... f-inch I-inch Finch DISCONTINUED. INSERTED. SIZES.

TABLE SHOWING THE NUMBER OF SERVICE CONNECTIONS IN USE JULY 1st. 1901.

												_	_] 81	٤,	in Jan 100.	1	A I	900 900	D -1	D T	180 130 119	00- 00-	r- D	JU	OT. U	8 2
∦ ∙in	ch		•			 														40), 4	188	1	Ι,	885	;		,	61		4	1,'	76
1 '	•					 												 		14	, 2	280		1	509)			14	1	1	4,'	77
2 '	•			 		 				 								 	ŀ		9	397			42	;	١.			1		1	88
8 '	•			 		 												 			1	L 6 8	l		28		١,			ł		1	19:
4 '	•					 												 			1	129	1		9	,	١.			1		1	18
6 '	•																					27			4		١.			1			3
10 '	•	٠.	•	 •		 •	•	•	•		•	•		•	•		•	 •				1					١.			1			:
																			-	55	, {	340		١,	972	3		-	75	-	5	7,5	28

TABLE SHOWING SERVICE CONNECTIONS IN HIGHLAND PARK, DELRAY AND RIVER ROUGE VILLAGES.

		1900-1			Pi	LEVIOU	5 TO 19	000.		mom.r
	56-in.	1 in.	2-in.	%-in.	1-in.	2-in.	8-in.	4-in.	6-in.	TOTAL.
Highland Park.	13	6	1	26	81		1			78
Delray	230	18	1	393	46	2	2	1	4	697
River Rouge	130	1			•••					181
Aggregate	875	25	2	419	77	2	3	1	4	906

The villages of Delray and River Rouge, make their own service connections. They have adopted our rules and regulations governing plumbers.

We still make all service connections for Highland Park, but they do their own inspection work, under rules similar to ours.

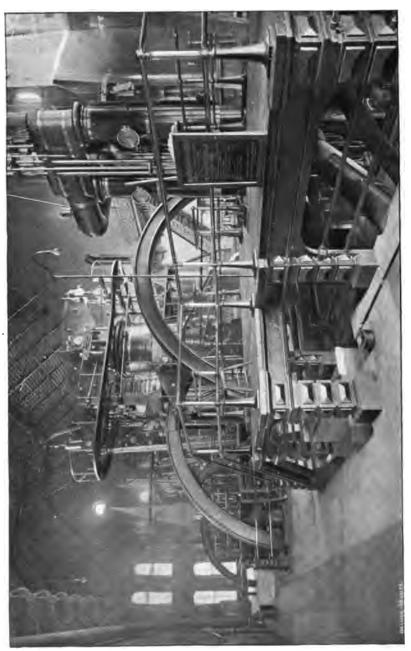
Each village takes its supply through meters, which removes the necessity of our inspection, so far as our city is concerned.

Attached to this report is a complete list of tools on hand, and an itemized account of material in stock in the meter and inspection departments on the 1st day of July, 1901.

All of which is respectfully submitted.

T. R. PUTNAM, Supt. Meters and Inspection.

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REPORT OF CHIEF ENGINEER AT PUMPING WORKS.

To the Board of Water Commissioners:

Detroit, July 1, 1901.

Gentlemen—I have the honor to submit the Engineer's report for the year 1900 and for first six months of 1901.

The following table shows the number of gallons of water pumped, and cost of fuel for the years named:

YEAR.	GALLONS OF WATER PUMPED.	Cost of Fuel Consumed.	Average Daily Delivered.
852			646,411
858	303,531,748	\$2,129 87	981,594
854		2,271 84	1,030,860
855		8,825 81	1,487,148
.8 56	692,124,305	4,017 44	1,896,231
857	697,190,523	8,998 20	1,909,837
858	718,091,207	8,655 20	1,967,37
859	782,112,587	8,194 15	2,142,774
860	870,036,451	4,196 21	2,883,580
861	895,129,423	4,414 07	2,452,40
969	994,945,829	3.150 95	2,725,87
868	1,085,798,043	4,670 86	2,837,80
864	1,018,390,256	7,647 69	2,839,07
865	1,049,514,887	7,872 89	2,875,38
866	1,196,317,922	9,849 16	8,277,58
867	1,425,535,230	10,121 82	8,905,57
868	1,666,545,125	11,379 28	4,507,94
869	1,946,810,325	11,247 92	4,511,80
870	1,866,060,068	12,718 78	5,112,49
871	2,300,150,605	14,681 05	6,801,78
872	2,782,292,578	17,786 86	7,601,89
978	3,198,393,948	20,288 80	8,762,72
874	3,289,872,635	20.481 71	9,018,88
875	4,207,454,260	21,898 98	11,527,27
876	4,065,134,470	19,882 89	11,107,49
877	4,213,239,790	17,488 79	11,548,19
878	4,345,748,330	10.948 82	11,906,14
879	5,129,599,110	11,219 51	14,053,69
880	5,552,965,310	12,276 60	15,172,08
881	6,543,127,968	16,556 68	17,926,87
882	6,284,000,742	18,156 16	17,261,44
888	7,379,827,188	16,495 99	90,217,88
884	8,510,614,140	19,877 07	28,258,04
885	9,970,829,580	21.841 48	27,817,84
886	10,576,571,254	20,887 24	28,976,90
987	13,168,859,808	85,882 88	86,079,16
888	14,380,166,670	39,568 66	89,897,71
889	12,875,834,458	84,418 81	85,274,88
990	12,120,944,582	31.852 40	88,909.06
891	12,057,261,236	88,826 86	38,038,59
892	12,476,612,482	81.084 40	84,182,49
893	13,877,977,208	27,479 98	88,021,85
994	13,649,779,605	29.283 47	87,896,65
895	14,698,451,954	82.095 00	40,269,78
896	13,254,369,371	81.186 17	36,215,12
597	12,928,821,326	17.855 58	85,421,42
998	14,278,682,058	17,880 19	89,092,25
899	16,348,062,701	19,011 67	44,789,21
900	17,077,100,477	25,898 50	46,786,576
anuary 1 to July 1, 1901			48,893,55
manary I World II y 1, 1901 [8,849,732,755	16,881 81	40,090,00

The following tables show in detail the work done by each engine each month of the year:

ENGINE No. 1.

MONTE	Time	run.	Revolu-	Gallons
MONTES.	H.	M.	tions.	Water.
January	856	45	189.075	169,621,290
February	847	40	195,415	211,680,110
March	944	50	148,250	142,769,700
April	886	40	192,145	218,768,960
May	807	85	169,586	150,608,126
June	878	85	212,068	908,697,486
July	458	50	268,196	817,109,580
August	415	85	244,860	281,202,480
September	247	45	148,081	156,052,949
Ogtober	265		151,809	121,517,958
November	447	15	257.050	298,648,850
December	487	80	288,630	826,786,922
Total	4,289		2,455,160	2,608,891,654
JANUARY 18T TO JUNE	Ютн, 1	901.		
January	305	80	179,472	181,878,909
February	542	45	824,179	899,456,184
March	449	25	260.217	278,082,612
April	249	15	187,649	180,140,769
Мау	585	iŏ	832,875	425, 176, 890
June	898	ΫŎ	235,184	276, 378, 484
Total	2,523	25	1,469,526	1,684,108,274

ENGINE No. 2.

January				
February	230	20	152,255	149,940,480
March	488	05	288,755	888,998,440
April	540	45	887,980	455,005,446
May	788	10	488,470	628,780,990
June	654	20	485,988	587,119,986
July	67	15	41,804	40,895,80
August	48	65	27,765	22,656,94
September	102		67,614	80,689,78
October	421	50	272,060	897,456,570
November	705	80	444,615	654,119,98
December	559	45	859,474	851,890,27
Total.	4.497	05	2,906,780	8,886,850,677

JANUARY 1ST TO JUNE 80TH, 1901.

January February March April May June	127	10	81,736	69,985,856
	224	10	145,247	302,281,992
	62	40	87,854	30,886,864
	621	80	899,856	519,789,584
	279	05	158,256	152,487,586
	488	50	269,759	860,296,256
Total	1,758	25	1,092,708	1,885,580,088

ENGINE No. 3.

MONTHS. January February March April May June July August September October November	780 635 588 488 180 687 712	50 20 05	484,985 889,415 864,985 258,865 78,410 428,540	788, 497, 956 695, 879, 086 652, 900, 436 460, 942, 346 185, 880, 866 682, 636, 816
February March. April. May June July August. September Cotober.	635 588 488 180 687	20 05 	889,415 864,985 258,865 78,410	695,879,086 652,900,436 460,942,246 185,880,866
February March April May June June July August. September October	635 588 488 180 687	90 05 95	864,985 258,865 78,410	695,879,086 652,900,436 460,942,246 185,880,866
March. April May June July August. September	488 180 687	95 25	864,985 258,865 78,410	652,900,480 460,942,940 185,880,860
April May June July August September October	488 180 687	95	78,410	460,942,240 185,880,860
May June June August. September October	180 687	25	78,410	185,880,860
June July August September October October September October September Septe	180 687	25		
JulyAugust	687	25		
August				
SeptemberOctober		200	489,780	706,587,740
October	704	50	438,120	672,425,960
	888		287,888	858,721,810
	122	50	77,879	122,179,560
Total	5 189	40	8 148 667	5,226,470,946
December	5,189	40	77,879 8,148,667	

January February March April May June	449 788 287 744	90 80 05 55	478,280 288,478 454,580 177,657 462,420 414,860	855,391,680 508,180,073 787,090,840 319,782,600 835,950,1220 728,686,306
Total	8,602	50	2,271,175	4,020,081,718

ENGINE No. 4.

December. Total	870	15 40	884,401 6.898,880	\$62,504,78 5,410,887,900
October	708	80	677,796 257,245	512,069,860 201,937,32
August	718	45 55	786,415 702,815	578,085,770 551,270,173
JulyJuly	626	20 50	588,208 669,580	525,614,800
April	744		794,725	568,080,95 461,743,28
March	701	85 90	682,160 181,860	535,499,52 142,760,10
January		95 45	707,570 631,065	555,442,456 495,378,17

JANUARY 1st to JUNE 80TH, 1901.

January February March April May	588 628 482	45 55		481,969,850 428,727,750 464,184,680 820,591,645
June	158	45	146,680	115,148,900
Total	2,459	25	2,305,755	1,810,017.675

TOTAL EXPENSE FOR PUMPING WATER FOR 1900.

Fuel, coal consumed\$25,398	50
Salaries, engineers et al	
Repairs, boilers and machinery 269	
Supplies, oil and waste	17
Supplies, boiler	33
Supplies, hose	74
Supplies, soap, polish, etc	47
Supplies, electric light 79	3 0
Supplies, white lead and paint	92
Supplies, farrier 7	00
Supplies, stationery	55
Supplies, ice	00
Horse expense	35
Boiler inspection	50
Express charges 1	41
Telephone rental 9	05
Total	62

The cost of fuel per million gallons pumped is \$1.48, and per million gallons pumped 100 feet high is \$1.28.

The table shows that the amount of water pumped during the year was 17,077,100,477 gallons, which is an increase of .04 per cent compared with that of 1899.

The total expense for pumping water, including heating. lighting, etc., was \$48,267.62, thus making the cost per million gallons pumped \$2.83, an increase of 8 per cent from that of 1899, which I consider is a good showing when we take into consideration that the average price of coal per ton for 1900 has been 16 per cent higher than that of 1899.

The station duty of coal consumed for all purposes for 1900 was 89,009,724 foot pounds.

The engines are all in a fair condition and show a good duty, as will be seen by this report.

There has been but one accident to the machinery the past year at the station, that of No. 2 engine's shaft giving away December 24th, which was replaced by one an inch larger in diameter. While having the crank off we had the holes rebored and a new crank pin put in, which was very

desirable, and now feel relieved of a great deal of anxiety, knowing it would have been only a question of a short time till it would have given out. Fortunately the Board had ordered one in advance, therefore was able to make repairs quite rapidly. In connection with this break it was very fortunate that the water connection was built last year between Nos. 2 and 3 engines' wells, so as to be able to put No. 3 in service while still working at its conduit and for that of the new engines.

All of the boilers are in good condition. The four vertical water tube boilers, built by Wickes Bros., of Saginaw, Mich., which were placed in the east room last year to take the place of the four marine fire-box type of boilers, were tested last March and have been giving satisfactory service ever since.

The boiler room and coal sheds are in a fair condition.

I have not been able to accomplish what was desired the past year, that of changing No. 1 and No. 2 engines as per last report, but hope in the near future to be able to give it more attention, and design and make drawings for same.

TOTAL EXPENSE FOR PUMPING WATER, JANUARY 1 TO JULY 1, 1901.

Cost of fuel consumed	.\$16,	881	31
Salaries, engineers et al	10,	916	10
Repairs shaft, grate bars, etc	. 1,	108	13
Supplies, engine oil and grease	. :	242	29
Supplies, kerosene oil and gasoline		27	32
Supplies, waste, rags and packing		191	42
Supplies, boiler and engine	• •	90	51
Supplies, electric light fixtures		1	20
Supplies, stationery and postage		6	95
Supplies, horseshoeing		4	00
Supplies, paint, lead, etc	•	20	03
Boiler inspection	•	3 6	00
Total	\$20 F	574	84

The cost of fuel per million gallons pumped is \$1.90, and per million gallons pumped 100 feet high is \$1.60.

The table shows that the amount of water pumped during the first half of the year was 8,849,732,755 gallons, which is 4 per cent more than one-half of the water pumped for 1900. The total expense for pumping water, including heating, lighting, etc., was \$29,574.84, thus making the cost per million gallons pumped \$3.34, an increase of 15 per cent from that of 1900. The figures also show that we were using the high price coal, which was not all consumed until June 29, of the present year.

The cost of coal in the sheds used during the last six months was \$3.29 per ton, but coal which we are now using is \$2.31 per ton, with about the same efficiency. The difference in the price will reduce the cost considerably the coming year.

The engines, boilers and building are in the same condition as formerly.

The twenty-ton crane, which was installed this summer, will-certainly be very convenient for the works, and the reconstruction of the gallery has improved the building both in appearance and strength.

URIAH GOULD, Chief Engineer of Pumping Station.



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REPORT OF THE SUPERINTENDENT OF CONSTRUCTION.

To the Honorable the Board of Water Commissioners of the City of Detroit:

Gentlemen—In accordance with the regulations of your honorable body, I herewith report the work done by the Construction Department as shown by the records of this office from January 1, 1900, to July 1, 1901:

Pumping Works.

The following is a statement of work done at the pumping station and grounds between above dates:

Conduit between Engines Nos. 2 and 3, begun in November, 1899, mentioned in that year's report, and completed in March, 1900.

Temporary partition at east end of engine house for the protection of machinery during the building of new addition; work done in January, 1900.

Taking down east wall of engine house and cleaning and piling stone, brick, etc.

Connecting No. 3 Engine to old conduit with specials and setting two hydraulic gates.

New junction well begun in January, 1901, and completed June 8, 1901.

Additional conduits and wells as planned by the Engineer; work was begun in March, 1901. Also a coffer dam in settling basin.

Basin intake well No. 3 constructed in settling basin, including concrete abutments, from May 1 to June 3, 1901.

Two hundred and seventy feet of the conduit have been

completed since March, 1901, the excavation for which was done by tunneling.

New strainer well No. 4, 18 feet diameter by 29 feet deep, containing two 60-inch gates.

Repairs to strainer well No. 1, from June 10 to 15, 1901. Repairs to strainer well No. 2, from May 25 to June 10, 1901.

The old basin intake No. 1, built in 1873, has been coffer dammed and new well is now being constructed at that point, and a system of drainage pipes connecting the strainer and junction wells and conduits with pump to be placed in strainer well No. 2, as is also a new junction well intersecting the old and new conduits.

Other work includes construction for drainage, building roads, removing and rebuilding hose houses and fences, building clock house and tool houses, repairing sprinkling system, etc.

Distribution System.

The pipe laid outside the city during the past year and a half was as follows:

In the Village of Delray, 3,093 feet; 1,536 feet of this pipe was laid of 8-inch to take the place of the same amount of 6-inch, which was discontinued, for the purpose of continuing the laying of water mains through River Rouge Village, the net increase of pipeage in Delray being 1,557 feet.

In the Village of River Rouge we laid 32,500 feet, and in the Township of Greenfield 315 feet.

The total added to the system outside of the city in the year and a half was 34,372 feet.

Inside the city limits we laid 25,199 feet and discontinued 1,504 feet of small pipe, making a net increase inside of city of 23,695 feet.

The net increase in the entire system being 58,067 feet, or 10 12 13 miles.

The Board now owns 39ffff miles outside of city and inside 531fff miles, making a total of pipe in system of 571fff miles of the different sizes, as follows:

Size of Pipe, Inches.	Measured Length in Fest For 1899.	Length in Feet Laid From January, 1900, To July, 1901.	Discontinued Fret From January, 1900, To July, 1901.	TOTAL LENGTE IN FEBT TO JULY, 1901.
45	108			103
42	59,491	888	12	60,867
86 .	715			- 715
80 -	54,494	12	• • 12	54,494
24	84,587			84,587
20	898			898
18	87			87
16	53,805	 		58,805
12	87,562			87,562
10	159,588	92	. 60	159,615
8	814,856	8,088	40	822,904
6	1,884,581	87,912	2,286	1,370,207
4	791,876	14,087	199	805,264
8 .	63,688	19	481	68,221
2	4,889	9		4,848
Total,	2,959,605	61,107	8,040	8,017,672

4-men bibe	A,AAB ICCL
6-inch "	4,952 ''
8-inch "	8 "
10-inch "	18 ''
Total	7,197 feet.
COST.	
Pipe	. \$3,617 10
Specials-45 Tees, 2 Crosses, 91 Curves, 45 Sleeves, 46 Reducers	J,
30 Plugs, 45 Smith Sleeves, 59 Service Cocks	
Gates	. 698 10
Lead	. 609 70
Sundries	. 59 61
Gate-wells	. 1,561 82
Hauling	. 146 81
Repaving	
Labor	
Superintending and Engineering	•
Total	\$11.810.88

Pipe Laid for Village of River Rouge.

FEET LAID.		
4-in. Pipe	. 7,081	feet
6-in. "	.19,595	"
8-in. "	7,410	**
Total	.84,086	"
COST.		
Pipe	. 218,98	4 49
Gates		6 00
Specials		2 61
Lead		1 20
	•	0 00
Superintending and Engineering		0 04
Hauling		
Labor		5 17
Contract for laying pipe under Rouge River	. 1,68	5 00
Gate-Wells	. 1,08	5 83
Sundries	. 18	8 65
Total	. \$29,98	8 99
Credit 1586 feet of pipe at 40c. per foot as per agreement	. 61	8 20
Net Cost	. \$29,87	0 79

At the close of this report will be found a descriptive list of the different lines of pipe laid, with locations, lengths, size and cost of construction in detail.

There have been placed since January 1, 1900, 21 tees for the use of the Fire Department.

Gates.

The total number of gates now in the distribution system amounts to 6,899 of the different makes and sizes, as follows:

GATES IN SYSTEM JULY 18T, 1901.

-	5	dates in Sisies, Juli 181, 1801.	5	101	5	17	191,							
Size.	42-In.	36-In. 30-In. 26-In. 30-In. 18-In. 16-In. 12-In.	80-Iv.	24-In.	20-IN.	18-In.	16-In.	12-In.	10-Ім.	8-Ip.	6-IN.	4-In.	8-In.	TOTAL.
Murdock	20	:	=	16	:	:	28.	3	188	457	1,681	1,325	11	8,719
Flowers	8	:	6	18	:	:	:	:	88	528	241	488	ૹ	833
Galvin	:	-	2	12	:	:	21	:	13	31	170	255	-	511
Michigan Brass and Iron Works	10	:	6	8	11	:	13	=	8	151	769	114	:	1,158
Pittsburg	:	:	:	15	:	æ	-	-	10	11	81	123	:	18
Roe Stephens	:	:	:	:	:	:	:	9	:	4	48	:	:	器
Eddy	:	. :	:	• :	:	:	:	:	15	4	9	3	:	8
Scowden (Scott)	:	:	:	:	:	:	:	:	æ	18	8	12	:	83
Ludlow	:	:	:	:	:	:	:	:	-	æ	0	∞	:	8
St. Louis	:	:	:	:	:	:	:	80	:	:	:	:	:	03
Detroit Water Works	:	:	:	:	:	:	:	:	68	8	146	67	:	344
Prong	<i>.</i> :	:	:	:	:	:	:	:	:	:	-	:	:	.
Boston	:	:	:	:	:	:	:	:	:	-	-	:	:	æ
Newport	:	:	:	:	:	:	:	:	:	:	:	-	:	-
No Name	:	:	:	:	:	:	:	:	÷	œ	6	88	-	2 4
TOTAL	3 2	-	88	82	#	82	82	2	888	764	8,105	2,879	88	6,889

There were added to the distribution system from Jan. 1, 1900, to July 1, 1901, 112 gates, as shown by the following table:

GATES SET FROM JANUARY 1, 1900, TO JULY 1, 1901.

	4 in.	6-tn.	8-in.	10-in.	TOTAL.
Detroit Water Works	27	57	10	2	96
Michigan Brass and Iron Works	2	5			7
Murdock					2
Scott		4		1	5
Pittsburg		1			1
Flowers	ļ	1			1
Total	81	67	10	8	112

GATES SET IN RIVER ROUGE, FROM JANUARY 1, 1900, TO JULY 1, 1901.

-	4-in.	6-in.	8-in.	TOTAL.	REMARKS.
Detroit Water Works			10	69 1	Shut-offs. Blow-offs.
Total	.29	81	10	70	

GATES SET AND RE-SET IN DELRAY, FROM JANUARY 1, 1900, TO JULY 1, 1901.

KIND.	4-in.	6-in.	8-in.	TOTAL.	REMA	ARK8
Detroit Water Wks	1	1	1	3	Set New.	Shut-off.
	1			1	"	Blow-off.
Murdock	8		•••	8	Re-set.	""
Total	5	1	1	7		

There were taken out of the system 41 gates, as shown by the following table:

TABLE OF GATES TAKEN OUT OF SYSTEM, FROM JANUARY 1, 1900, TO JULY 1, 1901.

No. of each kind.	KIND.	BIZE.	REI	IARKS.
8	Murdock	8-in	Shut-off	System.
9	44	6-in	. "	"
8	Michigan Brass and Iron Works	6-in.	"	"
1	Galvin	6-in.	"	44
8	44	4-in.	"	**
14	Murdock	4-in.	"	44
1	Scott	4in.	44	**
7	Murdock	4-in.	Blow-off	"
41	Total.			

There have been set and re-set for blow-offs from January 1, 1900, to July 1, 1901, 25 gates, as shown by the following table:

GATES SET AND RE-SET FOR BLOW-OFFS, FROM JANUARY 1, 1900, TO JULY 1, 1901.

No. of each kind.	· · KIND.	SIZE.	REI	IARKS
1	Detroit Water Works	6-in.	Set	New.
9	46 46	4-in.	"	"
1	Ludlow	4-in.	"	"
5	Murdock	4-in.	. **	"
2	Flowers	4-in.	"	"
6	Murdock	4-in.	Re-	set.
1	Ludlow	4-in.	**	".
25	Total.			

The following is a statement of work of the men employed in the examinations, operations and repairs of gates, gate wells, gate boxes, etc.:

January 1, 1900, to July 1, 1901.

12,644 gates were examined. 340 gates were out of order Jan. 1st, 1900. 526 gates were out of order since Jan. 1st, 1900. 796 gates were repaired. 41 gates were fitted with larger heads to stem. 107 gate wells were built over gates on new lines. 335 gate wells were built over gates on old lines. 12 gate wells were enlarged. 87 gates were cleaned. 10 wood boxes were replaced with iron boxes. 473 Boxes were readjusted to grade of street. 10,347 blow-offs were operated for blowing off dead ends. 1,824 gates were shut and opened for flushing. 6,640 gates were shut and opened for various purposes. 126 blow-offs were repaired, 2.265 wells in system.

Total and average cost of wells built over gates from January 1, 1900, to July 1, 1901:

Over Gates in Old Lines.	Tota Cost	_	Avera Cos	
15 gate wells, 10 in., 12 in., and 16 in. gates.\$	477	51	\$ 31	80
317 gate wells, 4 in., 6 in. and 8 in. gates	8,105	63	25	57
2 gate wells, 3 in. gates	47	85	23	92
1 gate well, 1 in. air cock	17	56	17	56
335 . \$	8,648	55		
Over Gates in New Lines.				
1 gate well over 10 in. gate\$	29	47	\$ 29	47
106 gate wells over 4 in., 6 in. and 8 in. gates.	2,209	66	20	84
Meter well, River Rouge	189	08	189	08
107 \$	2,428	21		
Total cost 442 gate wells\$	11,076	76		

Leaks in Mains from January 1st, 1900, to July 1st, 1901.

Between the above dates, 18 leaks were repaired in the mains of the distribution system, as follows:

DAT	E.	LOCATION.	812	E.	COST	г.
190	0				: 	
Feb.	27	Bagg, bet. Brooklyn and Trumbull	24-in.	main	\$127	80
A pril	8	Dubois and Guoin	10-in.	"	81	04
April	24	Pumping Station	42-in.	"	69	20
May	4	Dubois and Woodbridge	6 in.	**	80	46
May	5	Dubois and Woodbridge	6-in.	"	17	66
Sept.	12	Congress and Mt. Elliott	42-in.	"	350	90
Sept.	12	Woodward and Duffield	10 in.		41	17
Sept.	16	Woodward and Winder	10 in.	"	· 23	39
Sept.	27	Woodward and Duffield	10-in.	"	89	99
Oct.	9	Woodward, near High	10-in.	"	82	78
Nov.	3	Twenty seventh and Buchanan	80-in.	"	284	81
Nov.	4	Twenty-seventh and Buchanan	80-in.	**	174	40
Dec.	11	Jefferson and Holcomb	42-in.	"	840	61
Dec.	21	Jefferson and Griswold	16 in.	**	10	19
190	1				1.	
March	25	Dubois and Maple	8-in.	**	102	54
April	19	River Street, Delray	8-in.	"	12	67
June	14	Front of No. 871 Bagg Street	24-in.	**	78	94
June	14	Front of No. 880 Bagg Street	24-in.	••	114	16
				•	\$1,827	21

STATEMENT OF LEAKS COMPLAINTS, FROM JAN. 1, 1900, TO JULY 1, 1901.

	1	LEAKS.			COMPLAINTS	AINTB.	İ		SHUT.	E.			LET ON.	ON.	
MONTHB.	In S	In Service Pipe.	False Reports	No Water.	Bad Water.	Short Supply	Water Run- ning.	Vacant	Non- pay- ment.	For Look.	Miscel- lancous	Vacant Re-oc- cupled.	Non- pay- ment.	New.	Miscel- laneous
January	~	133	16	80	G	80	œ	15	13	8	8	&	જ	લ	10
February	x 0	140	\$	~	ю	4	3	۲-	R	210	:	6 0	•	:	-
March	15	*8	88	18	-	9	-	*	7	8	Q	13	8	-	€
April 1	17	110	15	\$	æ	13	-	.	8	2	80	3	ဓ	-	11
Мау1	8	67	12	81	. ~	~	co	-	16	3	П.	o o		:	91
June	۵	8	Ħ	13	15	18	-	63	જ	88	-	•	:	ဓာ	7
July	4	3	10	9	83	•	4		જ	13	တ	:	-	-	7
August	4	3	80	•	14	18		:	16	08		4	æ	ଊ	∞
September 1	11	22	4	10	4	16	-	:	R	18	4	•	4	•	-
October	6	81	4	જ	4	*		H	∞	15	10	લ્ય	:		જ
November	9	\$	ю	۲-	10	0 0	:	-	13	88	∞	4	4	જ	જ
December 1	13	44	14	18	10	ю	:	:	-	23	-	-	:	-	ю
Total 10	107	851	156	143	105	102	2	\$	125	999	84	88	22	15	15

PIPE LAID FROM JANUARY 1st, 1900, TO JULY 1st, 1901.

To F PIPE. The Fig. 6. 14. 15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16									Ö	COST OF CONSTRUCTION	CONE	TRUCI	TON.				
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Count fit, w. of e. of Cass 108' 6" 6 in. \$ 38 64 \$ 13 21\$ 8 92 2 \$ 30 00 \$ 5 42\$ 14 29\$ \$ 35 42 14 29\$ \$ 35 42 14 29\$ \$ 35 42 14 29\$ \$ 35 42 14 20\$					ribe	1		-	-		drles.			paving	Eng.		Cost.
7, 1900 Andrain st, Springwells e. from Mor and the control of the column of the colum	May 11, 1901	A	,9 ,801		98		60			8 30 00		24 98	8		6	43 \$ 119 94 \$	933 30
Fig. 10 ft. of 4 lb.). 21 4 lb. 6 08	l'ne 17, 1900	A		•				•		2					,		3
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The state of a column state of	fay 14, 1901		8 °	4.0 ä ä			œ 4	۰-		•		8	828		52 11	121 88 88	2 2 2 5
10	fay 1, 1900	Belvedere ave., from \$1 ft. n. of s. of Gratiot to 10 ft. s. of n. same	, \$	e ë		: :	•	• •							8		2 2
## 14 to 84 ft. w. of e. 407 6 in. 144 98	Kay 31, 1901 l'ne 28, 1901	Bohemian st., from \$5 ft. e. of w. of Cass to 4 ft. w. of w. of same Brekenridge st., from \$8 ft. w. of e.	8	6 in.	18		ю.	•••			\$	8	15		8	81 56	4
of Philadelphia. of Philadelphia. of Philadelphia. of Caso It. n. of a.c. o			404	6 in.	<u>¥</u>		2	16	:	#	1 55	젍	8		88	100 TE	846 28
The officers of the council of the c	Apr. 22, 1901	to 27 ft. s. of n. of Philadelphia	200	6 in.	866		8	8		=======================================		8	17 87		2	248	767 79
19. 9. 1. 10. 10. 10. 10. 10. 10. 10. 10. 10.	Apr. 24, 1900	Gratiot to 12 ft. n. of s. of same.	3	6 H			8	•		:	8		8 20	:	8	51 08	100 08
and 6 in. pipes. 1	Jec. 6, 1900	n. of River st. to 289 ft. n. of same	¥:	4.			_	2			8	61	82 26	:	18 70	25	180 88
To the off South (1986) of the control of the contr	ERY IO, 1900	connecting 4 in, and 6 in, pipes	# 0R	 		<u>:</u>	•	••	<u>:</u>	i	1 4	:	8		8	8	3
of e. of earne. 1, v. of e. of same. 1, v. of e. of earne. 1, v. of e. of	106 o, 1901		.9 ,89	6 ä	***		•	82	•	2		88	9	:	\$	160 57	508 81
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133 ft. w. of w. of Holoomb to 29 ft.	100 4, 1800	ions since	88	4 ä			-		•	~	8	25	58	13 20	1. 3.	18 22	87 84
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PIPE LAID FROM JANUARY 1st, 1900, TO JULY 1st, 1901-CONTINUED.

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1901 Kercheval ave., Delray) from 18 ft. s of Wabash R. R. to 471 ft. south of same	2	Aubin to 269 ft. w. of same, Koth st., from end of pipe 104 ft. w.	of Holcomb to 25 ft. e. of w. same.	ollotte to e. line of Eighteenth	1900 Leland st., from 103 ft. w. of alley w. of Moran to 352 ft. w. of same	Maxwell ave., from 26 ft. n Gratiot to 11 ft. n. of s. of	May ave., from 22 ft. n. of s. of Gratiot to 9 ft. n. of s. of same	Medbury ave., from 25 ft. w. of e. of Van Dyke to 537 ft. e. of same	of Cameron to 394 ft. w. of w.	ton.	of Rivard to 9 ft, w. of e. of all	n. of Theodore to 93 ft. 8, of same	21 ft. n. of	1900 Pallister and Woodward, (Con.)	Woodward to 4 ft. w. of e. Hamilton Boulevard	of n. of Kercheval to 1915 ft. n. of same	Parker ave., from Tonti plain	5.	1901 Pumping Station	reademacher, (Deiray) from 21 ft. s. of n. of n. of River st. to 689 ft. n. of same
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PIPE LAID FROM JANUARY 1st, 1900, TO JULY 1st, 1901-CONTINUED.

Date, LOCCATION OF PIPE. Apr. 28, 1900 Seneca ave., from 11 ft. s. of n. of Gratiot to 15 ft. n. of s. of same Feb. 26, 1901 Sidney ave., from 36 ft. e. of w. of Grameron to 309 ft. w. of w. same June 25, 1901 Sixteenth 5t., from 35 ft. s. of n. line of McGraw to 689 ft. n. of n. same Apr. 21, 1900 Stephens ave., from 35 ft. n. of s. of same Nov. 5, 1900 Siyrester ave., (Private property) from 5 ft. e. of center of Balve Nov. 14, 1900 Thirry-thirds ft., from 35 ft. s. of n. of Gratiot to 26 ft. n. of n. of same Dot. 17, 1900 Thirrieth at., from 35 ft. s. of n. of Visger to 130 ft. n. of n. of same Doc. 11, 1900 Thirrieth at., from 35 ft. s. of n. of Visger to 130 ft. n. of n. of same Doc. 11, 1900 Trumbull alley e. of, from 6 ft. s. of n. of Ash to 78 ft. n. of same June 3, 1901 Vienna st., from 35 ft. n. of same Nov. 28, 1900 Washington, alley w. ofn. of Clifford Dec. 13, 1900 Washington, alley w. ofn. of Clifford Dec. 14, 1900 Thirrieth at., from 35 ft. e. of w. t. of Repert Corp. Doc. 15, 1900 Washington, alley w. ofn. of Clifford Dec. 18, 1900 Washington, alley w. ofn. of Clifford Dec. 18, 1900 Washington, alley w. ofn. of Clifford Dec. 18, 1900 Washington, alley w. ofn. of Clifford Dec. 18, 1900 Washington, alley w. ofn. of Clifford Dec. 18, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washington, alley w. ofn. of Clifford Dec. 19, 1900 Washi	£4	83 6 in. 14 6 in. 14 6 in.	Pipe.	Adver- tising.	Spe- cials.		Gates.	Sun-	Gata		4	-	-	
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ave, from 2 ft. s. or to 47 ft. n. of sai	 1900 Woodward ave., (Grade crossing) relaid 425 ft. 10 in. pipe 1901 Hydrant connection (Delray) 	23, 1901 Hydrant connection (D	June 1900 Daniels Brick Yard, (Springwells) Dec. 1900 Washington alley west of east of	Clifford, lowered 265 ft. and laid	temporary pipe laid at grounds

All of which is respectfully submitted,

LUKE CROSSLEY,
Superintendent of Construction.

SUPPLEMENT.

BOARD OF MANAGEMENT OF DETROIT WATER WORKS

Board of Trustees appointed by Common Council, February 24th, 1852; organized March 1st, 1852.

Shubael Conant, Chairman.

Edmund A. Brush.

Henry Ledyard.

Wm. R. Noyes.

Jas. A. Van Dyke.

1853

On the 16th of May, 1858, the Board of Water Commissioners of the City of Detroit was organized under an act previously approved by the Common Council and passed by the Legislature, February 14th, 1853. The term of service was determined by lot, as follows:

Jas. A. Van Dyke,						for 3 years.
Edmund A. Brush,						for 4 years.
Henry Ledyard,						for 5 years.
Shubael Conant, .						for 6 years.
Wm. R. Noyes,						for 7 years.

Shubael Conant was elected President, who, finding the duties too arduous, resigned July 30th, and Edmund A. Brush was elected.

1854

Edmund A. Brush, President. Jas. A. Van Dyke. Shubael Conant. Wm. R. Noyes. Henry Ledyard.

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Edmund A. Brush, President. William R. Noyes.

Henry Ledyard. James A. Van Dyke, died May
Shubael Conant. 8th.

A. D. Fraser, appointed to fill vacancy.

1856.

Edmund A. Brush, President. Alexander D. Fraser, re-ap-Shubael Conant. pointed May 1st, for 5 years. Wm. R. Noyes. Henry Ledyard.

1857.

Edmund A. Brush, President, re-appointed May 1st, for 5 Alexander D. Fraser. William R. Noyes.

Shubael Conant.

1858.

Edmund A. Brush, President. Henry Ledyard, re-appointed Shubael Conant. May 1st, for 5 years.

Alexander D. Fraser. Wm. R. Noyes.

1859.

Edmund A. Brush, President.

Alexander D. Fraser.

Wm. R. Noyes.

Shubael Conant, term expired

May 1st, and

John V. Ruehle, appointed

May 1st to fill vacancy.

1860.

Edmund A. Brush, President.

Alexander D. Fraser.

Julius D. Morton.

William R. Noyes, re-appointed May 1st, for 5 years.

John V. Ruehle.

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Į

Edmund A. Brush, President.

Alexander D. Fraser, re-appointed May 1st for 5 years.

Chauncey Hurlbut appointed to fill vacancy.

1862.

Edmund A. Brush, President, Wm. R. Noyes.
re-appointed May 1st, for 5 Julius D. Morton.
years. Chauncey Hurlbut.
Alexander D. Frazer.

1863.

Edmund A. Brush, President. Chauncey Hurlbut, term expired May 1st, and Stanley G. Wight, appointed for 5 years.

1864.

Edmund A. Brush, President. Julius D. Morton, term ex-Alexander D. Frazer. pired May 1st. Wm. R. Noyes. Stanley G. Wight.

1865.

Edmund A. Brush, President.

Wm. R. Noyes, resigned Jan.

10, and Jacob S. Farrand
appointed to fill vacancy,
Term expired May 1st. Reappointed for 5 years.

Alexander D. Frazer.

Stanley G. Wight.

Julius D. Morton, re-appointed for 5 years from May 1st,
1864. Died Feb. 1865, and
vacancy.

1866.

Edmund A. Brush, President. Stanley G. Wight. Alexander D. Fraser, re-appointed May 1, for 5 years. Jno. Owen.

• Digitized by Google

Edmund A. Brush, President, Jacob S. Farrand.
re-appointed May 1, for 5 Jno. Owen.
years. Stanley G. Wight.
Alexander D. Fraser.

1868.

*Edmund A. Brush, President.
Stanley G. Wight, term expired
May 1, and
Chauncey Hurlbut appointed
for 5 years.

Jacob S. Farrand.
John Owen.
Caleb Van Husan.

*Edmund A. Brush resigned January 28, and Caleb Van Husan appointed to fill vacancy, and Alexander D. Fraser elected President.

1869.

Alexander D. Fraser, President. Jacob S. Farrand.

John Owen, re-appointed May
Caleb Van Husan.
Chauncey Hurlbut.

1870.

Alex. D. Fraser, President. Jno. Owen.

Jacob S. Farrand, re-appointed May 1, for 5 years. Chauncey Hurlbut.

1871.

*Alex. D. Fraser, President. Caleb Van Husan.

Jacob S. Farrand. Chauncey Hurlbut.

John Owen.

*Term expired May 1, and Samuel F. Hodge appointed for 5 years. Jacob S. Farrand elected President.

1872.

Jacob S. Farrand, President. *Caleb Van Husan.

Jno. Owen. Samuel F. Hodge.

Chauncey Hurlbut.

*Term expired May 1st, and Elija Smith appointed for 5 years.

*Chauncey Hurlbut, President. Jacob S. Farrand. Jno. Owen. Samuel F. Hodge.

Elija Smith.

*Term expired and re-appointed. Elected President, May, 1872.

1874.

Chauncey Hurlbut, President. Jacob S. Farrand. *Jno. Owen. Samuel F. Hodge.

Elija Smith.

*Term expired and re.appointed.

1875.

Chauncey Hurlbut, President. *Jacob S. Farrand.
Jno. Owen. *Samuel F. Hodge.

Elija Smith.

*Term expired and re-appointed.

1876.

Chauncey Hurlbut, President. Jacob S. Farrand.
Jno. Owen. *Samuel F. Hodge.

Elija Smith.

*Term expired and re-appointed.

1877.

Chauncey Hurlbut, President. Jacob S. Farrand. Jno. Owen. Samuel F. Hodge.

*Michael Martz.

*Elija Smith's term expired and Michael Martz appointed to fill vacancy.

1878.

*Chauncey Hurlbut, President. Jacob S. Farrand. Jno. Owen, Samuel F. Hodge.

Michael Martz.

*Term expired and re-appointed.

Chauncey Hurlbut, President. Jacob S. Farrand.
Michael Martz. *Jas. Beatty.

*Jno. Pridgeon.

*Jno. Owen's term expired and John Pridgeon appointed to fill vacancy. Samuel F. Hodge resigned and Jas. Beatty appointed to fill vacancy.

1880.

Chauncey Hurlbut, President. *Jacob S. Farrand. Michael Martz. Jas. Beatty.

Jno. Pridgeon.

*Term expired and re-appointed.

1881.

Chauncey Hurlbut, President. Jacob S. Farrand. Michael Martz. *Jas. Beatty.

Jno. Pridgeon.

*Term expired and re-appointed.

1882.

Chauncey Hurlbut, President. Jacob S. Farrand.

*Michael Martz. Jas. Beatty.

Jno. Pridgeon.

*Term expired and re-appointed.

1883.

*Chauncey Hurlbut, President. Jacob S. Farrand. Michael Martz. Jas. Beatty.

Jno. Pridgeon.

*Term expired and re-appointed.

1884.

Chauncey Hurlbut, President. Jacob S. Farrand. Michael Martz. Jas. Beatty.

*Jno. Pridgeon.

*Term expired, and Marshall H. Godfrey appointed

*Jacob S. Farrand, President. Michael Martz. Marshall H. Godfrey. *Edwin F. Conely. *Samuel G. Caskey.

*Jas. Beatty died and Edwin F. Conely appointed to fill vacancy. *Chauncey Hurlbut died and Samuel G. Caskey appointed to fill vacancy. *Jacob S. Farrand's term expired and re-appointed.

1886.

Jacob S. Farrand, President. Michael Martz. Marshall H. Godfrey. *Jno. Pridgeon. Samuel G. Caskey.

*Edwin F. Conely's term expired and Jno. Pridgeon appointed to fill vacancy.

1887.

Jacob S. Farrand, President. Jno. Pridgeon. Marshall H. Godfrey. Samuel G. Caskey. *Joseph Nagel.

*Michael Martz term expired and Joseph Nagel appointed to fill vacancy.

1888.

Jacob S. Farrand, President. Jno. Pridgeon. Marshall H. Godfrey. *Samuel G. Caskey. Joseph Nagel.

*Term expired and re-appointed.

1889.

Jacob S. Farrand, President. Jno. Pridgeon. Samuel G. Caskey. Jos. Nagel.

*August Goebel.

*Marshall H. Godfrey resigned January 1, 1889. August Goebel appointed to fill vacancy. Term expired May 1st, and re-appointed.

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Jno. Pridgeon, President.

August Goebel.

Joseph Nagel.

*Henry M. Duffield.

Samuel G. Caskey.

*Jacob S. Farrand's term expired, and Col. Duffield was appointed to fill vacancy July 9th, 1890; John Pridgeon resigned as President of the Board, on account of illhealth, and Henry M. Duffield was elected to fill vacancy.

1891.

Henry M. Duffield, President.

*Jno. Pridgeon.

August Goebel.

Samuel G. Caskey.

Joseph L. Hudson.

*John Pridgeon's term expired May 1st, and Frank E. Kirby was appointed for a term of 5 years.

1892.

Samuel G. Caskey, President.

Henry M. Duffield.

August Goebel.

Joseph L. Hudson.

' Frank E. Kirby.

1893.

August Goebel, President.

Samuel G. Caskey.

Frank E. Kirby.

Henry M. Duffield.

Joseph L. Hudson.

1894.

Henry M. Duffield, President. Frank E. Kirby.

Albert L. Stephens.

De Witt H. Moreland.

Edward W. Pendleton.

A. L. Stephens appointed to succeed J. L. Hudson.

D. W. H. Moreland appointed to succeed S. G. Caskey.

Clarence A. Black appointed to succeed August Goebel.

C. A. Black resigned and E. W. Pendleton appointed to succeed him from Dec, 1.

1895.

Frank E. Kirby, President.

Albert L. Stephens.

DeWitt H. Moreland.

Edward W. Pendleton.

Darius D. Thorp.

Albert L. Stephens, President. John P. Huckestein. Edward W. Pendleton. Darius D. Thorp.

John W. McGrath.

D. W. H. Moreland resigned to accept Commissionership on Board of Public Works, and J. P. Huckestein was appointed to fill vacancy.

Frank E. Kirby's term expired and J. W. McGrath was appointed to succeed him.

1897.

Edward W. Pendleton, President. James W. Millen.
John W. McGrath.

Darius D. Thorp. August Goebel.

August Goebel, appointed to succeed A. L. Stephens. Resigned January 1, 1898, and Joseph J. Noeker was appointed to fill vacancy.

John P. Huckestein resigned and James W. Millen was appointed to fill vacancy

1898.

Edward W. Pendleton, President.

John W. McGrath.
Darius D. Thorp.
Joseph J. Noeker.

James Meathe.

1899.

Darius D. Thorp, President. Joseph J. Noeker.

John W. McGrath. *James Meathe.

Edward W. Pendleton.

*James Meathe died September 21st, 1899, and Benjamin Guiney was appointed to fill vacancy.

1900.

John W. McGrath, President. *Benjamin Guiney.

Joseph J. Noeker. Edward W. Pendleton.

Darius D. Thorp.

Benjamin Guiney resigned, and John Zynda was appointed to fill vacancy.

1901.

Joseph J. Noeker, President. Edward W. Pendleton.

John Zynda. Darius D. Thorp.

Joseph J. Crowley.

THIRTY-FOURTH ANNUAL REPORT

OF

The Fire Commission

TO THE

COMMON COUNCIL OF THE CITY OF DETROIT,

TOGETHER WITH THE REPORTS OF

THE CHIEF OF DEPARTMENT, FIRE MARSHAL,

SUPERINTENDENT OF TELEGRAPH, ETC.

FOR THE

FISCAL YEAR ENDING JUNE 30, 1901.

DETROIT:
JAMES MARKEY, PRINTER.
1901

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BOARD OF FIRE COMMISSIONERS 1901.

FRANK H. CROUL.

FRED T. MORAN. OREN SCOTTEN. JOHN LENNANE.

PRESIDENT, - - FRED. T. MORAN.

VICE-PRESIDENT, - - FRANK H. CROUL.

SECRETARY-PURCHASER, GEORGE W. STOCKWELL.

THIRTY-FOURTH ANNUAL REPORT

OF

THE FIRE COMMISSION.

Office of the Fire Commission, Detroit, July 1, 1901.

To the Honorable the Common Council:

GENTLEMEN—In accordance with the act of the legislature creating the Fire Commission of the City of Detroit, the Fire Commission submits herewith its thirty-fourth annual report, giving in detail the expenditures and a synopsis of the work of the Department for the fiscal year ending June 30, 1901.

The reports of the Chief of Department, Purchaser, Superintendent of Water, Superintendent of Fire Alarm Telegraph, Superintendent of Horses, Fire Marshal, Superintendent of Apparatus, Department Surgeon, and Inspector of Buildings, submitted herewith, show the operations of the various bureaus

The reports of the Chief of Department and the Fire Marshal being of a statistical nature, are made to cover the last calendar year.

ORGANIZATION.

At this time there are in service, fully manned and equipped, the following apparatus:

Twenty-four Steam Fire Engine Companies.

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THE FIRE COMMISSION.

Two Marine Fire Engine Companies, (the Fire Boats "Detroiter" and "James Battle.")

Twenty-four Hose Wagons.

Ten Ladder Trucks.

Three Chemical Engines.

Six Supply Wagons..

In Reserve—without companies:

Four Steam Fire Engines and Equipment.

Three Ladder Trucks.

Two Hose Carriages.

Three Chemical Engines.

THE FIRE ALARM TELEGRAPH now consists of

Four hundred and thirty-six signal boxes.

Six hundred and twenty-five miles of wire, of which two hundred and twenty-five miles is laid in underground conduits.

THE WATER SUPPLY of the Commission consists of:

Three thousand seven hundred and sixty-one hydrants, connected with the street mains and sixty-two connected with pipe lines and supplied by the Fire Boats, Detroiter and James Battle.

Five hundred and eighty-four reservoirs, one having been discontinued.

THE FORCE OF THE DEPARTMENT is as follows:

UNIFORMED.

Chief of Department
Assistant Chief of Department
Chiefs of Battalion
Superintendent of Apparatus
Assistant Superintendent of Apparatus
Captains
Lieutenants
Engineers
Assistant Engineers

F11068	4
Pipemen	116
Laddermen	68
Drivers	72
Cadets	36
Superintendent of Fire Alarm Telegraph	1
Assistant Superintendent of Fire Alarm Telegraph	1
Operators	7
Linemen	1
Driver of Telegraph Wagon	1
Hydrant Inspector	1
Stokers	5
Headquarters' Messengers	2
Storekeeper and Machinist	1
Watchmen	33
Hydrant Men	2
Drivers of Water Wagons	2
Superintendent of Horses	1
Assistant Superintendent of Horses	1
Headquarters' Janitor	1
Total	495
NON-UNIFORMED.	
Secretary	1
Stenographer	1
Surgeon	1
Fire Marshal	1
Assistant Fire Marshal	1
Permit Clerk	1
Groom at Central Office	1
Veterinary	1
Carpenter	1
Grooms at Supply Stable	6
Total	15
Total force uniformed	
" non-uniformed 15	F10

Since the last report the new fire boat has been completed and placed in service.

The new house for the crew of the fire boat foot of McDougall avenue and the new house at corner of Crane avenue and Brinkert street have been completed and are now occupied by organized companies.

Estimates were allowed for a new building to take the place of one now occupied by Engine Co. No. 9, which has been condemned, and for a new engine house in the vicinity of Campbell avenue and Fort street. Work will be commenced shortly and the buildings completed.

The Commission has asked, for several years, when submitting its estimates, for an appropriation to enable it to build an engine house in the vicinity of Twenty-seventh street and Hancock avenue, but the item has not been allowed although it has been acknowledged that this house is needed.

Owing to the condition of the hull of the fire boat "Detroiter," it will be necessary for the Commission to include, in its next estimates, an amount which will enable it to build a new hull. The old hull has been in service since June 1, 1893, and is not in serviceable condition.

FIRE ALARM TELEGRAPH.

During the year thirteen new boxes have been placed in commission, making a total of four hundred and thirtysix boxes.

HORSES.

During the year fifty-three horses were bought and forty-two were sold. One was killed by coming in contact with a trolley wire and another dropped dead while responding to an alarm of fire.

There are now two hundred and one horses in service.

BUILDINGS.

The buildings of the Department required, during the year, an expenditure of \$10,234.80 for repairs.

WATER.

The water supply for fire extinguishing purposes was improved during the year by the addition of one hundred and fifty-two hydrants.

The Commission is under obligations to the Water Commissioners for their prompt and cheerful compliance with all requests made for additional mains where needed for the purpose of extinguishing fires

THE FIRE MARSHAL.

The report of the Fire Marshal, submitted herewith, is made to cover the calendar year 1900. Fifteen hundred and forty permits were issued for new buildings and four hundred and twenty-four for additions and alterations to old buildings.

. The following statement shows the number of buildings erected and repaired, together with the cost of the improvements since the establishment of the present building bureau:

YEAR.	New Buildings.	Alterations.	Cost.
1877—4 months	30	14	\$ 70,365
1878	505	. 174	971,318
1879	732	137	1,422,318
1880	756	384	1,596,120
1881	1,310	474	2,602,971
1882	1,676	412	3,513,260
1883	1,691	474	3,513,260
1884	1,899	526	3,681,066
1885	1,891	457	3,478,319
1886	2,053	477	3,912,899
1887	2,358	555	3,907,609
1888	2,422	554	3,732,730
1889	2,527	580	5,363,771
1890	2,625	626	5,374,480
1891	2,695	701	5,667,225
1892	3,159	718	5,727,300
1893	2,463	614	4,392,925
1894	1,631	488	4,361,055
1895	1,680	471	5,338,570
1896	1,446	477	3,166,500
1897	1,604	431	4,356,885
1898	1,625	395	3,915,565
1899	1.571	483	4,002,680
1900	1,540	424	4,142,400
Total	41,889	11,046	\$88,211,560

FIRES AND LOSSES.

Submitted herewith is the report of the Chief of Department, showing that the loss by fire during the year 1900, was five hundred and eighty-six thousand six hundred and ninety-three (\$586,693) dollars, a decrease of ten thousand six hundred and seventy-one dollars from that of 1899.

FIRE LIMITS.

The Commission respectfully renews the recommendations made heretofore that the fire limits be extended each year.

HOSE.

There are now in service in the department 76,180 feet of hose, of which 58,750 feet is $2\frac{1}{2}$ inch, 8,600 feet is 3 inch, 4,580 feet is $3\frac{1}{2}$ inch, all cotton, rubber lined, and 4,250 feet is chemical rubber.

RETIRED AND PENSION FUND.

During the year two names were placed on these rolls, those of George W. Lyon who was injured so that he is unfit to perform fire duty, and Bertha M. Regentin, widow of August W. Regentin who was instantly killed in discharge of his duty.

BALANCE SHEET.

RECEIPTS.

Cash balance July 1, 1900	\$52,056	94		
Appropriation	654,560	60.		
			\$706,617	54
Office receipts—turned in to city treasury:				
Unserved time	\$128	87		
Special service	302	50		
Old hose sold	337	50		
Old material sold	3£	00		
Horses sold	2,295	00		
Hydrants repaired and set	92	00		
Old hose carriages sold	100	00		
-			3,294	87
		•	\$709,912	41
. DISBURSEMENTS.				
Warrants drawn	\$693,760	56		
Cash balance June 30, 1901	16,151	85		
			\$709,912	41
		- 2		

LIST OF WARRANTS.

TO WHOM ISSUED AND FOR WHAT PAID DURING THE FISCAL YEAR ENDING JUNE 30TH, 1901.

JULY.

Date.	No.	, NAME.	Amount.	FOR WHAT PAID.
10	1	Pay roll Department	\$18,902 46	First half July.
	2	Pay roll horseshoers	518 28	June.
1	8 4	Pay roll washerwomen	158 28	June.
	5	Pay roll linemen & laborers.	858 91	Extensions.
	U	The J. A. Roe Co., Pen. Sav. Bank., assignee	1,476 00	Iron pipe.
- 1	6	John Fellrath & Co	82 00	Horse bedding.
	7	Thos. Manning, Jr. & Co	3,668 00	2nd est. fire boat pumps.
ļ	8	C. G. Johns	2 45	Harness repairs.
	9	Johnson & Johnson	15 00	Emergency kits.
i	10	The Cincinnati Bell F'dy Co.	318 75	Fire alarm belis.
- 1	11	Frank Walsh & Co	529 39	Repairs.
1	12	Jos. Deitz & Ward	396 55	Repairs.
- 1	18	Fred Bamford & Co	2 50	Frames.
ı	14 15	The Office Toilet Supply Co.	36 00	Washing. Waste.
l	16	Detroit Waste Works	14 30 129 48	Coal.
- 1	17	The O. W. Shipman Co Detroit E. L. & P. Co	12 34	Light.
ĺ	18	Ockford Printing Co	6 25	Printing.
	19	The Kruger Door Stop Co	8 00	Door stops.
1	20	Mich. Malleable Iron Co	10 00	Castings.
- 1	21	Farrand Williams & Clark	18 29	Supplies.
- 1	22	Archibald Grant	45 8 75	Paving.
- 1	23	A. Y. Malcomson	48 22	Coal.
16	24	H. Van Lerberghe & Co	128 50	Horse bedding.
	25	W. T. Bowen	56 07	Coal.
- 1	26	aconeid, anurmer & reagie.	21 91	Kerosene oil.
	27 28	F. G. Johnson	6 60 66 80	Repairs. Repairs.
- 1	29	Chas. Rohde & Co	40 80	Supplies.
1	30	Jenks & Muir Mfg. Co	834 73	Beds and springs.
j	81	J. Rosenweig	48 08	Wiping rags.
1	32	Mich. Drug Co	308 23	Acid and soda.
- 1	88	H. C. Weber & Co	36 28	Supplies.
	34	Farrand, Williams & Clark.	65	Lard oll.
	35	Banner Laundering Co	58 00	Washing.
	86	Pen. E. L. Co	46 17	Light.
	87	Edison Ill. Co	9 71	Light.
	38 29	Detroit City Gas Co	59 61 40 65	Light and fuel gas.
1	40	Gregory, Mayer & Thom Co. Hunton, Myles & Weeks	120 10	Stationery. Lumber.
ł	41	A. J. Orth	55 62	Repairs.
- 1	42	Limbach Sons & Co	2 85	Feed boxes and sheet iron
	48	Peninsular Stove Co	706 80	Furnace and parts.
	44	Central Paint & Glass Co	1 75	Shellac.
	45	A. Posselius & Co	45 92	Repairs.
i	46	Board of Public Works	184 82	Inspection and paving.
1	47	Detroit L. P. & S. L. Works.	169 95	Pig lead.
- 1	48	Murdock Valve Co	59 64	Hydrant fixtures.
	49	The C. H. Little Co	48 00	Lime, sand and coment.
- 1	50 51	W. H. Anderson & Sons The J. A. Roe Co	19 20 8 40	Repairs, etc. Tanks.
	52	J. C. Carpenter	21 75	Wood.
- 1	53	G. H. Clippert & Bro. Brk Co.	54 00	Brick.
	54	Mich. Electric Co	18 18	Supplies.
- 1	55	H. D. Edwards & Co	14,445 00	Hose.
- 1	56 57	H. D. Edwards & Co	71 10	Supplies.

JULY-CONTINUED.

Date.	No.	NAME.	A mount.	FOR WHAT PAID.
24	58	David Stott	\$128 80	
	59	A. E. Gerow	9 60	Harness repairs.
1	60	F. Wendt & Son	80	Harness repairs.
- 1	61	Wilbur Seed Meal Co	9 00	White rock.
	62	H. Dunneback	88 10	Belts and harness repairs
- 1	68	Fred Feldman	1 80	Harness repairs.
	64	Chas. A. Graulich	2 00	
	65	Frank Joyce	1 00	Harness repairs.
	66	F. W. Sepull East End Boiler Works	8 60	Harness repairs. Repairs.
	67	East End Boiler Works	3 65	Repairs.
- 1	68	Det. River Gas. Eng. Wks	19 70	Repairs.
	69	Essler & Co	9 00	
i	70	Gray Bros	48 75	Repairs.
1	71	F. G. Johnston	19 25	Repairs.
- 1	72	A. Fisher	50 50	Repairs.
- 1	78	Graebert & Purdle	18 05	Repairs.
- 1	74	Det. Shipbuilding Co	175 35	
	75	Morgan, Puhl & Morris	68 40	
	76	F. M. Sibley Lumber Co The R. Jerriat I. E. & Paint	208 00	Lumber.
- 1	77	The R. Jerriat I. E. & Paint		ŀ
- !		Co Central Paint & Glass Co		Iron enamel.
- 1	78	Central Paint & Glass Co		Paint.
- 1	79	The Riverside S. & Ctg. Co	5 00	Hoisting bell.
	80	Gardner Elevator Co	18 25	Repairs.
l	81	J. E. Bolles I. & W. Works.	9 00	Wire guards.
- 1	82	DeMan Bros	13 69	
1	88	Mich. B. & I. Works	2,187 75	
	84	Crescent Machine Co	25 00	
- 1	85	Mich. Telephone Co	45	Services.
	86	Chas. A. Peltier	500 00	Insurance.
1	87	Pay roll linemen & laborers.		Extensions.
J	88	Pay roll Department	18,730 86	Last half July.
To	tal for	July	\$85,080 87	

AUGUST.

				
7	89	W. T. Bowen	\$1,089 89	
	90	Buhl Sons & Co	20 37	
	91	Houghton-French Co	18 50	
	92	Fire Extinguisher Mig. Co	895 00	
	93	Cairns & Bro	28 00	('oat badges
	94	Detroit City Gas Co	56 86	Light and fuel gas.
	95	Detroit L. P. & S. L. Works.	84 97	Pig lead.
	96	Jas. H. Stone & Co		Printing.
	97	Julia P. Laing	27 90	Sheets and pillow slips.
	98	Detroit Lumber Co		Lumber.
	99	Armstrong & Graham		Salt Sacks.
	100	Det. Water Commissioners.	729 88	
	101	Mich Telephone Co	27 00	
	102	Burnham, Stoepel & Co	91 11	
	108	David Stott	44 00	
	104	Pay roll horseshoers	398 02	
	105	Pay roll washerwomen	145 76	
	106	Pay roll linemen & laborers.	401 99	
	107	Pay roll Department		First half August, 1900.
	108	H. Van Lerberghe	117 50	
	109	Mich. Bolt & Nut Works	30	Bolts.
14	110	Fred'k Kahl	24 00	Heater pattern.
	111	Sievers & Erdman	418 75	
	112	W. T. Bowen	725 47	
	113	Frank Walsh		Repairs.
	114	Sales Bros	108 99	
	115	J. Felirath & Co	57 50	Shavings and kindling.
	116	Central Paint & Glass Co	2 00	Shellac.
	ı	1	ì	

AUGUST-Continued.

Date.	No.	NAME.	Amount.	FOR WHAT PAID
14	117	Scofield, Shurmer & Teagle.	\$15 65	Kerosene oil.
	118	Morgan, Puhl & Morris C. W. Restrick	52 15	Insignias.
	119 120	A. Posselius & Co	86 32 8 30	
	121	A V Malcomson	164 00	Repairs. Coal.
	122	A. Y. Malcomson	9 54	Light.
	123	Hunton, myles & weeks	6 25	Lumber.
	124	A. Fisher	96 60	Repairs.
	125 126	Chan Pohdu & Co	5 32	Sand, lime, etc.
	127	Chas. Rohde & Co	104 75 277 69 45 19 11 12	Repairs. Repairs.
	128	The Peninsular E. L. Co	45 19	Light.
l	129	The Edison Ill. Co	11 12	Light.
	130	J. Gabler & Bro The Mich. B. & I. Works Edson, Moore & Co F. Wendt & Son	37 60 1,163 25	narness repairs.
	181 182	Figure Moore & Co.	1,163 25 165 50	Hydrant and gates.
	188	F. Wendt & Son	165 50 95	Blankets Harness repairs.
	134	J. A. Mercler	134 40	Paving.
	135	J. A. Mercier E. Frolich Paint & Glass Co.	14 05	Glazing, etc.
	136	I The Mijrdock Valve (a	18 03	Stumng boxes.
	137 138	Essler & Co	5 00 971 44	Repairs.
	139	Detroit Soan Co	25 00	Pipe, sleeves, etc.
	140	Tuttle & Clark	78 75	Harness and repairs.
	141	Ockford Printing Co	3 50	Printing.
	142	Jacob ZergaChas. A. Lorman	71 44	Repairs.
21	143 144	Pay roll Department	1,500 00 18,858 01	Site for engine house. Last half August.
	145	Pay roll linemen & laborers	383 38	Extensions.
28	146	David Stott	39 53	
	147	I JOHN NEVIOUSE CO	4 25	
	148	Grachert & Purdie	26 29	Repairs.
	149 150	i Peningijiar I. & C. Wkg. Ltd. i	128 75 23 80	Paint.
1	151	Cairns & Bro J. D. Candler & Co H, C. Weber & Co D. E. Hill, M. D.	71 66	Badges. Repairs.
	152	H, C. Weber & Co	8 76	
- 1	153	D. E. Hill, M. D	6 00	
- 1	154	J. F. Daisch	70	Fitting keys.
- 1	155 156	Gardner Elevator Co The C.A. Strelinger Co	1 25 1 65	Repairs.
- 1	157	Fred Bamford & Co	31 57	Supplies. Shades and key signs.
- 1	158	John A. DeTar	124 25	Painting.
- 1	159	Mich Dave Co	69 01	Runnline
1	160	H.D. Edwards & Co	87 67	Supplies.
- 1	161 162	Crogory Mayor & Thom Co	4 20	Supplies. Supplies. Harness repairs. Stationery.
- 1	168	Limbach Sons & Co	9 16	Swede iron.
- 1	164	Farrand, Williams & Clark.	6 50	Lard and sperm oil.
	165	Det. Shipbuilding Co	22 13	Repairs.
l	166	H.D. Edwards & Co. F. W. Sepull Gregory, Mayer & Thom Co. Limbach Sons & Co. Farrand, Williams & Clark. Det. Shipbuilding Co. Banner Laundering Co. Hull & Mohan.	2 16 6 50 22 13 58 00 9 00 7 20	Washing.
- 1	167 168	Hall & Mohan	7 90	Repairs.
	169	Chas R. Perry & Co	12 80	Stationery. Register paper.
	170	Chas. E. Perry & Co	2 50	Globes.
	171	Mich. Telephone Co	5 58	Rental.
	172 178	The Office Toilet Supply Co.	37 50	Washing. Base and mouldings.
	174	DeMan Bros Fred Feldman	5 96 95	Base and mouldings.
	175	Frank Joyce	8 45	Harness repairs. Harness repairs.
	176	C.G.Johns	1 75	Harness repairs.
	177	Paige & Chope Co Geo.C. Wetherbee & Co	20 20	Toilet paper and twine
	178	Geo. C. Wetherbee & Co	24 00	Mops.
]	179 180	Deitz & Ward Detroit City Gas Co	700 00	Repairs.
	181	I WILL LADDID	55 27 24 41	Light and fuel gas. Paving
1	182	The Mich. B. & I. Wks	186 70	Hydrant repairs.
Tι	SEAL FO	or August	\$50,707 50	1

SEPTEMBER.

Date.	No.	NAME.	Amount,	FOR WHAT PAID.
4	188	R.L. Polk & Co	\$20 25	Directories.
•	184	Morgan, Puhl & Morris	4 25	Fire hat.
	185	Jas. N. Petrie & Co	87 50	Buttons.
	186	The Gleason & Bailey Co	40 41	Ladder locks.
	187	Pen.L.&C. Works Ltd	30 25	Paint.
	188	Pay roll linemen & laborers.	427 50	Extensions.
11	189	Central Paint & Glass Co	16 24	Glass and paint.
i	190 191	Ockford Printing Co	9 50	Printing.
	192	Wm. Cornehl & Sons	2 50	Printing.
	193	Office Toilet Supply Co Banner Laundering Co	87 50 58 00	Washing.
	194	B.G. Morris & Co	44 00	Supplies.
	195	John Naylon & Co	24 40	Snaps, etc.
- 1	196	John Fellrath & Co.	57 00	Horse bedding.
1	197	The U.S. Battery Co	16 54	
	198	H. Van Lerberghe & Co	80 00	Horse bedding.
	199	Scofield, Shurmer & Teagle.	18 78	Kerosene oil.
	200	Edson, Moore & Co	40 48	Cotton.
i	201	Geo. C. Wetherbee & Co	40	Duster.
- 1	202	Edison Ill. Co	11 30	Light.
	203	Peninsular E. L. Co.	38 88	Light.
- 1	204 205	Detroit E.L.& P.Co	14 03	Light.
- 1	206	W.T.Bowen Detroit Shipbuilding Co	1,624 85 18,000 00	Coal. 3rd estimate new fire boat
	207	Pay roll washerwomen	154 76	
	208	Pay roll horseshoers	455 48	August.
	209	Pay roll Department	19,032 44	First half September.
18	210	Fred Feldman	2 60	Harness repairs.
	211	F. Wendt & Son	50	Harness repairs.
- 1	212	Gustav K. Jacob	9 07	Harness repairs.
	213	Frank Joyce	55	Harness repairs.
	214	Chas. F. Graulich	4 65	Harness repairs.
	215	Pay roll linemen & laborers.		Extensions.
0.5	216	Jacob Kolb		Horses.
25	217 218	The C. A. Strelinger & Co	2 87	Supplies.
	219	Detroit Horsebedding Co F.R. Wilson	155 25 18 00	
	220	A. Fisher	95 45	Singletrees. Repairs.
	221	Essler & Co	10 30	
- 1	222	Adam J.Orth	96 47	
	223	J.D. Candler & Co	10 05	Repairs
	224	Fred Bamford & Co	10 77	Shades and repairs.
	225	Morgan, Puhl & Morris	17 75	Insignias.
J	226	Pay roll Department	19,004 94	Last half September.
١	227	R.A.Freer	175 00	Horse.
To	tal fo	r September	\$60,848 71	

OCTOBER.

2 22	B Pay roll linemen & laborers.	\$438 78	Extensions.
22	H.D.Edwards & Co	273 64	Supplies.
23	B.G. Morris & Co	8 50	Brooms.
28		14 00	Steel pins.
23		5 45	Supplies.
23		120 20	
23		28 80	Supplies.
23			Pipe.
23			Light and fuel gas.
23	A.Y.Malcomson	102 85	Coal.
23		6 00	Subscription.
23		1 50	Zenoleum.
24			Stamping tags.
24	Gardner Elevator Co	1 50	Repairs.

OCTOBER-Continued.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
2	242 248	Burnham, Stoepel & Co	8 00	Towels.
	244	Carson, Craig & Co	27 55 2,521 80	Repairs. Oats.
	245	Gamewell F.A.Tel.Co. H.F.Bender, Treas	160 00	Fire alarm box and keys.
9	246	Frank Walsh	319 70	Repairs.
	247 248	Pay roll horseshoers Pay roll Department	411 67 18,911 95	September. First half October.
	249	Pay roll washerwomen.	164 98	September.
	250 251	N.E. Duel	175 00 111 74	Horse. Lumber.
	252	C. W. Restrick Scofield, Shurmer & Teagle.	18 78	Kerosene oil.
	258 254	Detroit E. L. & P. Co Banner Laundering Co.	25 16 58 00	Light. Washing.
-	255	Crescent Machine Co	10 25	Repairs.
1	256 257	W. A. Sturgeon & Co The Improved Match Co	15 55 6 25	Repairs. Matches.
	258	Detroit Rubber Stamp Co	1 65	Rubber stamps.
	259 260	Western Union Tel.Co Jenness & McCurdy	25 1 75	Telegram. Jugs.
	261	Limbach Sons & Co	6 60	Jugs. Nails.
	262 263	Office Toilet Supply Co. Ockford Printing Co	87 50 45 00	Washing. Printing.
	264 265	Ockford Printing Co Pen. L.& C. Works Ltd. The Edison Ill. Co	65 00	Paint.
·	266	Peninsular E. L. Co	16 71 52 57	Light.
	267 268	Jacob Zerga	19 49	Repairs.
	269	Central Paint & Glass Co H. Vanterberghe & Co	79 97 45 00	Paint, glazing, etc. Horse bedding.
	270 271	Mich Electric Co H. C. Webber & Co	88 80	Supplies.
	272	Burnham, Stoepel & Co.	10 38 21 00	Supplies. Grain bags.
16	273 274	Detroit Shipbuilding Co The Det. L. P. & S. L. Wks Hunton, Myles & Weeks	18,000 00	4th estimate new fire boat
	275	Hunton, Myles & Weeks	186 93 12 50	Pig lead. Lumber.
	276 277	Buhl Sons & Co	18 63 86 00	Galvanized iron.
	278	Brownlee & Co	60 00	Cross arms.
	279 280	Sales Bros	16 57 93 50	Pipe, etc. Coal.
	281	A. Y. Malcomson	5 00	Subscription.
	282 283	John Fellrath & Co	40 00 1 90	Shavings. Castings.
	284	Fred'k Kahl Frank Walsh Carson, Gralg & Co	119 88	Repairs.
	285 286	Carson, Craig & Co Pay roll linemen & laborers.	2,794 66 421 91	'Oats. Extensions.
	287	A. J. Dupuis & Co	1,100 00	1st est. piling E. H. No. 25.
	288 289	Jacob Kolb	675 00 350 00	Hose wagon. Horses.
	290	The Strong Disinfectant Co. Fred'k Kahl	6 00	Disinfectant.
	291 292	Pittmaus & Dean Co	61 60 212 25	Pots and rings.
	293 294	The Detroit Tribune	3 00	Subscription.
	294	W. H. Auderson & Sons	18 20 6 00	Coach oil. Pounder handles.
	296	W. H. Anderson & Sons W. E. Heames & Co	2 50	Fire clay and bricks.
	297 298	The Mich. Drug Co Detroit City Gas Co	64 27 47 74	Supplies. Light and fuel gas.
	299 300	Gregory. Mayer & Thom Co. Pay roll Department	13 60	Stationery.
30	301	Essier & Co	18,595 61 1 15	Last half October. Repairs.
	302 303	Chas. Rohde & Co	100 75	Repairs.
	304	Albert Fisher	33 45 3 25	Repairs.
	305 306	H.Dunneback	7 60	Harness repairs.
	:407	J.Gabler & Bro	5 05 6 15	Harness repairs. Harness repairs.
	308	August Kade	3 95	Harness repairs.

THE FIRE COMMISSION.

OCTOBER-CONTINUED.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
80	309	F. Wendt & Sons	\$1.80	
ļ	810	C.G.Johns	2 40	
- 1	811	Chas. F. Graulich	8 50	
	812	Fred Bamford & Co	85 15	
	313	Adam J. Orth		Repairs.
	814	James S. Hardle	11 52	
	315	Mich Bolt & Nut Works	59	Bolts.
	316	West Penn. Petroleum Co	26 78	
	317	Detroit Waste Works	16 51	
	318	Hurley Transfer Co	3 23	
	319	G.W.Cook	18 00	
	320	Remington Stan. Typw. Co.	18 00	
- 1	821	B. G. Morris & Co		Brooms and brushes.
1	322	Jenness & McCurdy	5 00	
- 1	323		5 75	
	324	R. D. Wood & Co	26 40	
	325	Crescent Machine Co	7 25	Repairs.
	326	Gamewell F. A. Tel. Co.		la
		H. F. Bender, Treas	882 50	
1	327	A. Posselius & Co. Ltd	69 86	
1	328	Slevers & Erdman	750 00	Hose wagon.
ı	329	Pay roll linemen & laborers.	432 89	Extensions.
To	tal fo	r October	\$70,032 22	

NOVEMBER.

	1	l		D1
7	380	Graebert & Purdle	33 49	Repairs.
	331	H. D. Edwards & Co	80 98	Supplies.
	832	Sievers & Erdman	145 25	Repairs.
	333	Mason L. Brown	10 00	
	334	Frank Walsh & Co	193 27	
	835	John Kendall	85 00	
	336	J. D. Candler & Co	59 33	
	337	Schillinger Bros	84 42	
	33 8	Jos. Deitz & Ward	810 00	
	839	Jacob Kolb	1,050 00	
	340	Pay roll washerwomen	149 72	October.
	341	Pay roll horseshoers	475 01 18,468 52 29 30	October.
	842	Pay roll department	18,468 52	First half November.
18	843	W. H. Anderson & Sons	29 30	Tools.
	344	Scofield, Shurmer & Teagle	28 17	Kerosene oil.
	345	The Strong Disinfectant Co.	6 00	Disinfectant.
	84 6	A. Y. Malcomson	182 22	Coal.
	347	John Fellrath & Co	72 00	Horse bedding.
	848	John Naylon & Co		Robe and whips.
	349	Pen. Lead & Color Wks. Ltd.	126 97	
	350	J. C. Wilson Carriage Co	9 00	
	851	H. D. Edwards & Co	27 85	
	3 52	Boydell Bros	3 50	
	353	I. L. Scheinman & Co	18 72	Wiping rags.
	354	Kellerman Crane Nozzle &		
		Mfg. Co	25 00	Spray nozzle.
	355	Julia P. Laing	14 60	Sheets and pillow cases.
	856	Riverside Stor. & Cart. Co	10 00	Rental of grain wagon.
	357	Standart Bros	25 32	Supplies.
	358	Geo. C. Wetherbee & Co	2 25	Mop sticks.
	359	Office Toilet Supply Co	37 50	Washing.
	360	Banner Laundering Co	53 00	Washing.
	361	Edison Ill. Co	23 42	Light.
	362	Peninsular E. L. Co	67 96	Light.
	363	Jewett, Blgelow & Brooks	76 31	Coal.
	864	Ockford Printing Co	42 00	Printing.
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ANNUAL BEPORT OF

NOVEMBER-Continued.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
13	865	Lane Bros	\$39 18	Gates and gaskets.
	366	R. D. Wood & Co	85 00	Hydrant.
	867	Gamewell F. A. Tel, Co. F. H. Bender, Treas	125 00	Fire alarm box.
	368	The M. N. Rowley Co	40 00	Key tags.
	369	Mich. F. & M. Ins. Co	29 25	Insurance.
	370	Detroit F. & M. Ins. Co	29 25	
	871	Central Paint & Glass Co	109 91	Paint, glazing, etc.
	372	Sievers & Erdman	1,100 00	Hose wagon.
	878	Thos. Manning	4,500 00	Fire engine.
	374	Pay roll linemen, laborers		
27	~~~	and painters	497 51	Extensions and painting.
Zí	375 376	Thos. Egan	218 25 157 50	
	877	H. Van Lerberghe	157 50	
	878	Frank Joyce	1 50	Harness repairs.
	879	C. G. Johns Fred Feldman	1 50	Harness repairs.
	880	Tuttle & Clark	117 85	Harness and supplies.
	381	Chas. Menzelmann	19 50	
	382	Phelps, Brace & Co	7 15	
	383	Standart Bros	22 78	
	384	Western Union Tel. Co	41	Telegram.
	3 85	Detroit Soap Co	25 00	Soap.
	386	Fire Extinguisher Mfg. Co	504 65	Cel pipe, pomp. lad'rs, etc
	887	J. D. Candler & Co	42 00	Repairs.
	388	Jos. Dietz & Ward	847 87	Repairs.
	389 390	Gray Bros	16 25 24 75	Repairs.
	391	Essler & Co	105 53	Repairs. Repairs
	392	Det. River Gas. Eug. Wks	29 35	Repairs.
	392	A, Fisher Sievers & Erdman	138 65	Repairs.
	894	F. G. Johnston	8 65	Repairs.
	895	Union Brass & Iron Wks	184	Repairs.
	396	Graebert & Purdie	21 60	Repairs.
	397	Chas. Rohde & Co	53 35	Repairs.
	398	Detroit City Gas Co	53 19	Light and fuel gas.
	399	Mich. Electric Co	41 08	Supplies.
	400	A. J. Dupuis & Co	1,000 00	2nd estimate for piling.
	401	Thos. Manning, Jr. & Co	4,500 00	Fire engine.
	402	The Detroit News Co	1 79	Stationery.
	403	Gregory, Mayer & Thom Co.	17 45	Stationery.
	404	Pay roll linemen, laborers	526 82	Extensions and painting.
	405	and painters	18,422 76	Last half November.

DECEMBER.

4	406	Board of Water Commiss'rs	22 95	Gate box, sleeve, reducer.
	407	Central Paint & Glass Co	11 21	Glass, paint, etc.
	408	Detroit E. L. & P. Co	22 09	Light.
	409	Geo. W. Mattice	171 12	Printing.
	410	The Mich. Drug.Co	11 87	
	411	Sales Bros	2 74	Galv. elbows and nuts.
	412	Paige & Chone Co	21 78	Toilet paper and sacks.
	418	Detroit L. P. & S. L. Works	14 65	Pipe and tank.
	414	Chas. Rohde & Co	192 85	Repairs.
	415	Hunton, Myles & Weeks	150 91	Luinber.
	416	Graebert & Purdie	50 77	Repairs and supplies.
	417	Detroit Rubber Stamp Co		Rubber stamps.
	418	Geo. A. Burch		Ladders and repairs.
	419	C.W. Restrick	92 33	Lumber.

THE FIRE COMMISSION.

DECEMBER-CONTINUED.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
4	420	Murdock Valve Co – State Sav. Bank, assignee	\$905 50	Pipe line material.
	421 422	The Peninsular Stove Co	1,978 57	Furnaces and parts.
11		Pay roll linemen, laborers and painters	464 57	Extensions and painting.
	428 424	Pay roll horseshoers Pay roll washerwomen	766 68 155 44	November. November.
18	425 426	Pay roll Department H. Van Lerberghe	155 44 18,305 04 66 25 86 68 82 65 53 00	First half December. Horse bedding.
10	427	David Stott Commercial Milling Co	86 68	Bran.
	428 429	John Fellrath & Co	82 65 53 00	Bran. Shavings.
	430 431	John Fellrath & Co Thos. Egan	53 00 97 50 21 70	Caulks. Medical care.
	432	St. Mary's Hospital J. F. Baisch	2 20 13 05	ritting keys.
ì	433 434	Farrand, Williams & Clark. Mich. Drug Co	18 05 13 88	Oil meal. Supplies.
	435 436	Standart Bros The M. N. Rowley Co A. J. Mandel. F. S. Armstrong Regalia Co.	13 88 84 75 2 25	Supplies. Knives.
	437	A. J. Mandel	82 50	Carrots.
	438 439	The Strong Disinfectant Co.	41 30 6 00	Disinfectant.
	440 441	The Strong Disinfectant Co. Michigan Stove Co. Office Toilet Supply Co	20 92 87 50	Repairs.
	442	Banner Laundering Co	53 00	Washing.
	443 444	A. Y. Malcomson	577 12 152 01	Coal.
	445 446	Jewett, Bigelow & Brooks.	38 09 25 04	Coal.
	447	Baner Laundering Co. W. T. Bowen. A. Y. Malcomson Jewett, Bigelow & Brooks. Scofield, Shurmer & Teagle. Detroit E. L. & P. Co. Peninsular E. L. Co. Rdison III. Co.	88 71	Light.
	448 449	Peninsular E. L. Co Edison Ill, Co	88 70 80 24	Light.
Ī	450 451	Idison III, Co	28 40 4 82	
1	452	Detroit News Co. Gregory, Mayer & Thom Co. Ockford Printing Co. Hunton, Myles & Weeks	28 75	Stationery.
	453 454	Hunton, Myles & Weeks	80 00 28 67	Painting. Lumber.
	455 456	Buhl Sons & Co Central Paint & Glass Co	70 42 16 89	Iron, etc. Glass.
	457	A. K. Sweet & Co.	105 00	Painting.
	458 459	Frank Walsh & Co H. D. Edwards & Co	81 94 55 48	Repairs. Supplies.
	460 461	East End Boiler Works Board of Water Commiss'rs	4 68 18 67	Repairs. Connections.
	462	Sales Bros Fred, Bamford & Co	1 00	'Sink.
	463 464	Henry Carew & Co	16 32 2,450 00	Key signs and cards. 1st est No. 26 Eng. Hous
	465 466	Henry Carew & Co	994 00 112 62	Fin est.pil. fire boat house Furniture and repairs.
	467	Pay roll Department	18,206 60	Last half December.
26	468 469	Mich. Electric Co Graebert & Purdie	28 48 28 14	Supplies. Repairs, etc.
	470 471	A. Fisher East End Boiler Works	38 15 11 45	Repairs.
	472	John Lauer	4 90	Repairs.
	478 474	Essler & Co	8 30 8 00	Repairs.
- 1	475 476	Gray Bros. Detroit Riv. Gas. Eng. Wks.	81 16 9 71	Repairs.
	477	Sievers & Kraman	198 80	Repairs.
	478 479	Chas. Rohde & Co Detroit Shipbuilding Co	158 55 180 29	Repairs.
	480 481	Co-operative Foundry William Parker	228 00 5 92	
	482	J. Gabler & Bro	81 75	Harness and repairs.
	483 484	Henry Dunneback F. Wendt & Son	9 65 45	Harness repairs. Harness repairs.
	485	The C. H. Little Co	58 16	

DECEMBER-CONTINUED.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
26	486	Adam J. Orth	\$ 56 06	Repairs, etc.
	487	Lake Erie Asphalt Blk. Co	209 36	Paving.
- 1	488	J. D. Candler & Co	5 40	Repairs.
	489 490	J. A. Mercier Black Meadow Farm.	81 00	Paving.
- 1		Det. Nat. Bank, assignee.	1.105 00	Hav.
- 1	491	John L. Dexter & Co	191 73	Hav.
	492 493	Mich. Brass & Iron Wks Pay roll laborers, linemen	8,851 40	Hydrants, gate, etc.
ı		and painters	621 63	Painting and extensions
To	tal for	December	\$54,410 01	

JANUARY.

2	494	Am. Car & Foundry Co	1,537 81	Pipe, tees, sleeves, caps, &c
- 1	495	Detroit E. L. & P. Co	33 47	Light.
	496	Detroit City Gas Co	55 45	Light and fuel gas.
	497	Burnham, Stoepel & Co	6 75	Towels and blankets.
	498	Detroit L. P. & S. L. Wks	2 37	Sheet lead.
	499	The Strong Disinfectant Co.	6 00	Disinfectant.
	500	A. J. Heidenrich	60	Stovepipe.
	501	Jenness & McCurdy	2 50	Globes.
	502	Henry L. Walker	13 75	Coal
	503	1. L. Scheinman	19 28	Wiping rags.
	504	Central Paint & Glass Co	87 26	Paint, glass, etc.
	505	The Stein-Vogeler Drug Co.	465 47	Sponges and chamois.
	506	Fire Extin. Mfg. Co	17 00	Repairs.
	507	John L. Dexter & Co	51 00	salt.
	508	Jacob Brand	765 00	1st est. Eng. House No. 25
	500	The Peter Smith Heater Co.	350 00	Heater.
	510	G. H. Clippert & Bro. Bk. Co.	57 00	Brick.
	511	The Police Tel. & Signal Co.	667 50	Plates, cells, etc.
	512	Paige & Chope Co	20 00	Toilet paper.
8	513	John Lauer	11 10	Repairs.
	514	H. Van Lerberghe	77 50	Horse bedding.
	515	Fred'k Kahl	28 20	Castings,
	516	Sievers & Erdman	333 85	Repairs.
	517	Jacob Kolb	2,125 00	Horses.
	518	Pay roll linemen, laborers	2,125 00	noises.
	010	and painters	296 45	Extensions.
	519	Pay roll washerwomen	165 72	December.
	520	Pay roll horseshoers	413 84	December.
	521	Pay roll Department	18,372 77	First half January.
22	522	L Coron & Co	2,600 00	2d est, Eng House No. 26.
22	528	H. Carew & Co Detroit L. P. & S. L. Wks	21 44	Pipe.
	524	The Peninsular E. L. Co	99 93	Light.
	525	The Edison Ill. Co	38 96	Light.
	526		37 50	
	527	Office Toilet Supply Co	32 58	Washing.
		Fire Exting, Mfg. Co		Bottles and stoppers.
	528 529	B. G. Morris & Co	26 75 2 25	Brooms.
		Fred Bamford & Co		Cord.
	530	Mich. Carbon Works	10 00	Neatsfoot oil.
	531	H. D Edwards & Co	81 81	Supplies.
	532	Limbach Sons & Co	10 06	Nails.
	533	Detroit L. P. & S. L. Wks	1 30	Metal pot.
	534	The Mich. Stove Co	39	Grate.
	585	Scoffeld, Shurmer & Teagle.	46 95	Kerosene oil.
	536	The Det. Free Press	7 00	Subscription.
	537	Peninsular L. & C. Wks	32 05	White lead and whiting.
	538	Banner Laundering Co	53 00	Washing.
	539	Pay roll linemen, laborers		l., , , , , , , , , , , , , , , , , , ,
		and painters	196 50	Extensions and painting.

THE FIRE COMMISSION.

JANUARY-CONTINUED.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
22	540 541	Buhl Sons & Co	\$17 89 850 87	Sheet Iron. Repairs.
	542	The Penin. Stove Co	130 29	Stoves and furn. repairs.
	548	A. Y. Malcomson	281 14	
	544	Western Union Tel. Co.	25	Telegram.
	545 546	Ockforn Printing Co	12 50	Printing.
	547	The C. H. Little Co	10 94 281 54	
	548	W. T. Bowen Thos. Egan	281 54 165 00	
	549	Central Paint & Glass	10 02	
	550	W. A. Sturgeon & Co.	1 70	Repairs.
i	551	Detroit Horse Bedding Co.	112 50	Horse bedding.
	552	Union Brass & Iron Wks	16 81	Repairs.
	553	John Fellrath & Co	55 50	
	554	Gregory, Mayer & Thom Co.	18 13	Stationery.
	555	Donaldson & Meler	300 00	
	556	Detroit Shipbuilding Co	18,000 00	
	557	Thos. Manning, Jr. & Co	8,144 00	
29	558 559	Pay roll Department	18,149 22 6 00	
29	560	The Strong Disinfectant Co.	8 87	Disinfectant. Supplies.
	561	C. G. Johns	6 60	Harness repairs.
	562	August Kade	4 55	Harness repairs.
1	563	A. E. Gerow	6 10	
	564	Fred Feldman	2 05	
1	565	Chas. F. Graulich	6 55	
	566	J. Gabler & Bro	14 05	Harness repairs.
	567	H. Dunneback	2 40	Harness repairs.
	568	Void		-
- 1	569	Jacob Kolb	1,000 00	Horses.
-		r January	\$71,245 08	1

FEBRUARY.

5	570		045 55	P
		and painters	217 75	Extensions and painting.
12	571			Repairs.
	572	Henry L. Walker		Wire.
	573	Frank Walsh & Co		Repairs.
	574	Henry A. Worthington	10 96	Pump repairs.
	575	Delbridge & Cameron Co	75 90	Material and turning.
	576		96 61	Repairs, etc.
	577	East End Boiler Works	6 56	Repairs.
	578	Detroit Shipbuilding Co	18 70	Repairs.
	579	Easler & Co	5 25	Repairs.
	580	Adam J. Orth		Repairs.
	581	Board of Water Commiss'rs.	270 00	Gate boxes.
	582	John L. Dexter & Co	555 21	Hay.
	583	The Police Tel. & Signal Co.	720 00	Table bells.
	584	Seidler-Miner Electric Co	5 07	Armored cord.
	585	Edson, Moore & Co	48 72	Cotton.
	586	Public Light. Commiss'rs	1 25	Inspection.
	587	R. B. Ridgley	23 04	Tool steel.
	588	F. B. Stevens	18 50	Metal polish.
	589	Beecher, Peck & Lewis	17 50	Tollet paper.
	590	W. H. Anderson & Sons	25	Machine steel.
	591	The Barber Asphalt Pav. Co.	4 10	Paving.
	592	Chas. F. Peltier	1.050 00	Insurance.
	593	Burnham, Stoepel & Co		Blankets.
	594	Central Paint & Glass Co		Paint, glazing, etc.
	595	Ockford Printing Co	15 25	Printing.
	596	Julia P. Laing	14 20	Sewing.
	597	Frank Puddefoot	42 50	

FEBRUARY-Continued.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
12	598	The Whitehead & Hoag Co.	\$45 00	Badges.
	599	H. Carew & Co	2,500 00	3rd est. Eng. House No. 26
	600 601	Detroit City Gas Co Detroit E. L. & P. Co	61 07 54 63	Coke, Light and fuel gas. Light.
- 1	602	The Edison Ill. Co	40 31	Light.
	608	The Edison Ill. Co The Peninsular E. L. Co	108 15 154 28 846 50	Light.
- 1	604 605	Pay roll washerwomen	154 28	January.
	606	Pay roll Department	18 151 82	January. First half February.
19	607	Pay roll Department	18,151 82 6 00	Blankets.
	608	I. L. Schelnman	83 74	Wiping rags.
	609 610	Michigan Stove Co	45 23 50	Repairs. Bends.
	611	Jacob Brand		2d est. Eng House No. 2
	612	Jacob Brand Detroit L. P. & S. L. Wks	2 77	Pipe.
	613	The LaFrance Fire Eng. Co.	7 92	Nipples, tees and ells.
j	614 615	Office Toilet Supply Co Banner Laundering Co	37 50 53 00	Washing. Washing.
	616	Sam'l Eastman & Co	1,628 00	Nozzles, holders, etc.
i	617	G. H. Clippert & Bro. Bk. Co. The C. H. Little Co	30 00	Brick.
	618	The C. H. Little Co	52	Sewer crock and cement
l	619 62 0	W.T.Bowen	264 40 38 75	Coal. Sawdust and shavings.
1	621	A.Y. Malcomson	192 36	Coal.
- 1	622	H.D.Edwards & Co	636 37	Sundries.
- 1	628	Sales Bros	205 99	Pig lead, pipe fittings, etc
:	624 625	A. Posselius & Co DeMan Bros	19 85	Furniture and repairs. Sash.
- 1	626	Wm. Inglis Wire & Iron Wks	5 00 2 50 27 60 28 50	Wire guards.
l	627		27 60	Mangers.
ŀ	628	Spater Bros	28 50	Brooms and baskets.
- 1	629 630	Spater Bros. Thos. Egan Am. Contracting Co Farrand, Williams & Clark. The C. A. Strelinger Co. Pere Marquette R. R. Co. The M. N. Kowley Co.	60 00 31 61	Caiks. Pavement repairs.
1	681	Farraud, Williams & Clark.	31 61 17 74	Supplies.
1	632	The C. A. Strelinger Co	29 65	Sundries.
- 1	633 634	The M. N. Rewley Co	84 94 10 00	Freight.
- 1	635	The M.N. Rowley Co David Stott	44 18	Post angles. Bran.
- 1	636	Mich. Electric Co	88 33	Sundries.
	637 63 8	Jewett, Bigelow & Brooks Pay roll linemen, laborers	210 85	Coal.
	639	and painters	247 40 14 64	Extensions and repairs.
26	640	Jacob Kolb	1,015 00	Paint, glass, etc. Horses
	641	Jacob Kolb Sohn Naylon & Co	95 50	Blankets and whips.
- 1	642	Delbridge & Cameron Co	5 00	Blocks.
l	643 644	Detroit City Gas Co L J. Wohnlich	57 45 16 48	Light and fuel gas. Pump springs.
- 1	645	Grav Bros	346 40	Repairs, etc.
- 1	646	Gray Bros Fred'k Kahl	3 89	Harness weights.
	647	S.H.morgan	475 00	1st est furnace E. H. 26.
- 1	648 649	Gardner Elevator Co	475 00 17 00 808 71 7 23	Repairs. Hay.
1	650	Pittsburgh Plate Glass Co	7 28	Glass.
	651	Geo. C. Wetherbee & Co	22 05	Supplies.
- 1	652 653	Farrand, Williams & Clark.	51 58 7 50	Soap. Globes.
- 1	654	Hunton, Myles & Weeks	40 50	Lumber.
	655		5 55	Sheet iron.
	656	DeMan Bros	1 80	Rosettes.
	657 658	Frank Joyce	5 26 7 15	Repairs. Harness repairs.
	659	Fred Feldman	5 15	Harness repairs.
	660	J.Gabler & Bro	14 90	Harness repairs.
	661	F. Wendt & Son	3 55	Harness repairs.
	662 663	Chas. F. Graulich Pay roll Department	14 65 18,197 76	Harness repairs. Last half February.
T	ntal fo	r February	\$53,821 51	l

MARCH.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
5	664	Pay roll laborers, linemen	9007 00	Fytonsians and reading
12	665	B. Frolich Glass Co	\$265 00 2 80	Extensions and repairs.
12	666	Board of Water Commiss'rs.	206 31	Putty, sash and glass. Gate boxes and connect'
i	667	Gregory, Mayer & Thom Co.	81 10	Stationery.
	668	Western Union Tel.Co	1 54	Telegrams.
1	669	Detroit Soap Co	25 00	
	670	Mich. Tel. Co	83 00	Rental.
	671	T.E.Smith, Jr	22 65	
	672	Shepperd & Burnham	50 00	
- 1	673	J. Jenks & Co	115 68	Hay.
	674	F.A. Puddefoot	4 00 54 00	
- 1	675 676	H. Van Lerberghe & Co	71 46	Shavings.
i	677	Graebert & Purdie	78 91	Repairs, etc. Kerosene and valve oil.
l	678	Scoffeld, Shurmer & Teagle, Detroit E. L. & P.Co Detroit Horse Hedding Co Penin. L. & C. Works. Ltd	32 21	Light.
	679	Detroit Horse Bedding Co	107 50	Shavings.
- 1	680	Penin L & C. Works, Ltd	109 05	Paint, etc.
- 1	681	I luttle & Clark	7 50	Saddle, etc.
- 1	682	Union Brass & Iron Wks	26 30	Repairs.
- 1	688	Det. River Gas. Eng. Wks	18 45	
1	684	A.Fisher	148 50	
- 1	685 686	Essler & Co	9 75	Repairs.
I	687	Sievers & Erdman	519 65 144 10	
l l	688	Chas. Rohde & Co	34 00	Repairs. Shavings.
i	689	John Fellrath & Co The J. A. Roe Co	8 01	Coupling, pipe, etc.
	690	The Strong Disinfectant Co.	12 00	Disinfectant.
- 1	691	The Strong Disinfectant Co. Edison Ill. Co. Peninsular E. L. Co.	39 53	
- 1	692	Peninsular E. L. Co	OE EO	Light.
- 1	693	J. reman & Co	47 00	Shavings and kindling.
- 1	694	Pay roll washerwomen	47 00 147 12	February.
- 1	695	Pay roll horseshoers	218 20	February.
	696	Pay roll Department	18,154 56	First half March.
19	697 698	National Tel. Equipment Co.	26 30	Sundries. Coal.
- 1	699	A.Y.Malcomson The J.A.Roe Co	411 57 2 59	Sundries.
- 1	700	Sales & Broad Co	22 40	Supplies.
	701	John L. Dexter & Co	610 24	Hay.
1	702	Jewett, Bigelow & Brooks	110 06	Coal.
	703	Pay roll linemen, laborers		
	_	and painters	237 50	Extensions and painting
	704	Cyrus Johnston	25 00	Tax title Eng. House No.
26	705	Gregory, Mayer & Thom Co.	16 75	Stationery.
1	706	Inos. Egan [60 00	Calks.
	707 708	Detroit City Gas Co	67 33 1 25	Coke, light and fuel gas. Carriage hire.
	709	Henkel's Livery Scofield, Shurmer & Teagle.	25 04	Kerosene oll.
	710	J. Gabler & Bro		11-14-
	711	Farrand Williams & Clark	10 00	Lard oil.
- 1	712	Standard Oll Co	22 55	Lard oil.
- 1	718	Ocklord Printing Ce	4 00	Printing.
	714	(+, w . Briggs	6 10	Meals.
- 1	715	Sievers & Erdman	454 70	Repairs.
- 1	716	H.D.Edwards & Co	865 30	Supplies.
	717	F.G.Johnston	2 85	Repairs.
	718	Cairus & Bro	42 00	Badges.
ŧ	719 720	John Lauer	1 45 6 00	Repairs.
1	721	Tuttle & Clark	53 00	Naddles. Washing.
- 1	722	Office Toilet Supply (o	37 50	Washing.
	723	Central Paint & Glass Co	224 82	Paint, etc.
- 1	724	Pay roll Department	18,163 26	Last half March, 1901.
- 1	725	C.M.Burton Estate of Wm.B.Wesson	25 00	Abstract of title.
- 1	726	Estate of Wm.B. Wesson	20 00	Tax title interest.

APRIL.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
2	727	David Stott	\$94.56	Bran.
- 1	728	R.B. Ridgely Mich. Bolt & Nut Works	R4	Tool steel.
	729	Mich. Bolt & Nut Works	1 79	Bolts.
	780	mich. Stove works	4 82	Linings and grates
- 1	731	C.C. Wormer Machinery Co.	2 87	Packing, etc.
- 1	732	Rainbow Color & Chem. Co.	48 10	Acid.
	733	Jacob Brand	2,260 00	3d est. Eng. House No. 25
	784 735	Seidler-Miner Electric Co Malcomson & Higginbotham	5 12 825 77	Flexible conduit. Drawings and specifications Eng. House No.26
- 1	786 787	Detroit Waste Works	7 22	waste.
	738	Edson, Moore & Co	65 68	Sheeting.
	739	Tuttle & Clark	1,827 85	Coal.
- 1	740	Tuttle & Clark	75 50 11 60	Harness.
i	741	Martha LaFreible	87 63	Meals. Sleeves.
	742	Frank Walsh	63 48	Repairs.
	748	S.H.morgan	200 00	2d est.heating app. Eng. House No. 26.
- 1	744 745	Chas. Manzelman	18 00	Brooms.
	746	Hoyt Post, Trustee. Fire Exting. Mfg. Co	85 18 10 80	Light.
	747	Gardner Elevator Co	10 80	Springs and rivets.
	748	John Navion & Co	8 50 64 50	Repairs.
	749	John Naylon & Co Detroit Shipbuilding Co Western Union Tel. Co	8 15	Blankets. Repairs.
	750	Western Union Tel Co	26	Telegram.
1	751	Armstrong & Graham	8 00	Trace chains.
	752 758	Pay roll linemen, laborers	2 05	O11.
	754	and painters	265 25	Extensions and painting.
9	755	John Lauer	216 68	Repairs.
٠ ا	756	David Stott	8 18 58 37	Repairs. Bran.
	757	David Stott	29 02	Repairs, etc.
	758	l A Fisher	400 50	Repairs.
	759	Chas. Rohde & Co	158 35	Repairs
	760	F. G. Johnston	4 25	Repairs.
	761	Essler & Co	9 15	Repairs.
	762	Essler & Co Det. River Gas. Eng. Wks	104 45 600 00	Renairs.
	763 764	O'Connor Bros	600 00 174 02	1st est. heating apparatu Eng. House No.25. March.
1	765	Pay roli horseshoers	448 51	March.
	766	Pay roll Department	18,228 80	First half April.
	767	Jacob Kold	850 00	Horses.
16	768 769	John L. Dexter & Co Pay roll linemen, laborers	138 68	Hay.
ļ	770	and painters	234 26 493 76	Painting and extensions.
[771	Fire Exting Mfg.Co		Repairs.
- 1	772	Ranner Laundering Co	58 00	Sundries. Washing
- 1	773	Banner Laundering Co Office Toilet Supply Co Western Union Tel.Co	37 50	Washing.
ı	774	Western Union Tel Co.	1 0.26	Telegram.
23	775	Pay roll Department	18,209 56	Last half April.
30	776	H. Demenlenaire	47 55	Carrots.
į	777	Cantral Paint & 111aco Ca	86 82	Paint, glazing, etc.
1	778	Harper Hospital	14 00 2 00	Paint, glazing, etc. Board and attendance.
1	779	Boyd's Ambulance Corps	2 00	Ambulance service.
- 1	780	Peninsular E. L.Co	73 10 37 90	Light.
j	781	Harper Hospital Boyd's Ambulance Corps. Peninsular E. L. Co Detroit City Gas Co Edison III. Co C. H. Cilmont & Pac Nr. Co	87 90	Light and fuel gas.
ŀ	782 783	G.H. Clippert & Bro. Bk. Co.	28 11 42 00	Light.
ļ	784	W.II. Chubert & Dru. Dr. Co.	8 00	Brick.
1	785	H. Van Lerberghe	21 25	Shavings.
i	786	Gregory, Mayer & Thom Co. Jacob Brand	1,600 00	Stationery, etc. 4th est. Eng. House No. 25
1	787	John L. Dexter & Co	293 93	Hay.
ı	788	H.Carew & Co	3,200 00	4th est Eng. House No. 26
	789	H.Carew & Co	257 25	Extensions and painting.
_		or April	\$51,135 76	· "

MAY.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
7	790	Pay roll Department	\$18.182 68	First half May.
•	791	Pay roll washarwoman	\$18,182 68 148 92 449 78	April.
	792	Pay roll horseshoers	449 78	April. Shavings.
	793	Pay roll horseshoers. H. VanLerberghe J. C.Goss & Co. Julia P. Laing O'Brien Rein & Holder Co.	39 00	Shavings.
	794 795	J C. GOSS & CO,	150 00 23 00	Coal bags. Pillow slips and sheets.
14	796	O'Brien Rein & Holder Co	113 00	Holders.
1.3	797	F.G.Johnston	10 30	Harness repairs.
	798	Frank Joyce	15 05	Harness repairs.
	799	Frank Joyce J.Gabler & Bro	23 15	Harness renairs.
	800	Chas. F. Graulich	2 05 7 15 6 80 5 05	Harness repairs.
	801	F. Wendt & Son	6 90	Harness repairs. Harness repairs.
	802 803	Angust Kade	5 05	Harness repairs.
	804	August Kade	4 20	Harness repairs.
j	805	Fred Feldmann	1 50	Harness repairs.
- 1	806	Henry Dunneback	10 10	Harness repairs.
- 1	807	David Stott	48 68	
	808	John Fellrath & Co	115 50	Shavings and kindling.
- 1	809	Detroit Horse Bedding Co	147 50 698 29	Horse bedding.
- 1	810 811	John L. Dexter & Co Essler & Co	36 30	Hay. Repairs.
	812	John Lauer	9 14	Repairs
	813	John Lauer Det. River Gas. Eng. Wks	489 77	Repairs.
	814	Chas. Rohde & Co	322 65	Repairs.
- 1	815	Detroit Shipbuilding Co	10 35	
	816	A. Fisher	258 35	Repairs.
	817 818	East End Boiler Works	18 62 30 86	Repairs. Repairs.
	819	Sievers & Erdman	593 80	
	820	Central Paint & Glass Co	160 42	
	821	Wilbur Seed Meal Co	9 00 5 00	White rock.
	822	Jenness & McCurdy Office Toilet Supply Co	5 00	Globes.
	823	Office Tollet Supply Co	37 50	Washing.
	824 825	Banner Laundering Co	53 00 18 30	
	826	A. Posselius & Co	109 42	Repairs, etc. Sundries.
- 1	827	Detroit Rubber Stamp Co	2 20	
i	828	Ockford Printing Co	5 75	Printing.
-	829	W.T. Bowen	372 46 107 76	Coal.
- 1	830	Jewett. Bigelow & Brooks	107 76	Coal.
1	831	A.Y. Malconison	221 49	
l	832 833	Peninsular E. L. Co The Edison Ill. Co	91.83	Light.
	834	Hovt Post Trustee	30 29	Light and lamps.
	835	Hoyt Post, Trustee	34 43	Kerosene oll.
	836	Sales & Broad	2 12	
	837	The C. H. Little Co The Mich. Brass & Iron Wks.	50 14	Cement, etc.
. !	838	The Mich. Brass & IronWks.	35 00	
	839 840	Fred'k Kahl W. H. Anderson & Son Mich. Tel. Co Mich. Elevator Co	6 52	
l	840 841	Mich Tel Co	19 36 33 00	Tools, etc. Rental.
- 1	842	Mich Elevator Co	85 08	Wire and supplies.
	843	Henry L. Walker	1,005 39	Wire.
	811	Gregory, Mayer & Thom Co.	9 25	Stationery.
	845	Henry L. Walker Gregory, Mayer & Thom Co. Pay roll linemen, laborers and painters	354 75	Extensions and painting
28	846	Cutcheon, Stellwagen & McKay	7 50	i
J	847	John F.Degan	130 71	Sponges.
j	848	J. C.Goss & Co Detroit City Gas Co	56 44	Awnings.
	849	Detroit City Gas Co	18 45	
- 1	850 851	Henry C. Weber & Co David Stott	1 50	Sundries.
ı	852	Chas F. Graulich	42 08 2 25	Bran. Harness repairs.
ľ	853	Tuttle & Clark	134 50	Harness.
l	854	John Naylon & Co	54 00	Whips, snaps & salt sac
	855	Gray Bros	623 00	Repairs.

MAY-Continued.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
28	856	Slevers & Erdman	\$712 70	
	857	Graebert & Purdie	24 49	
	858	Police Tel. & Signal Co		Battery material.
	859	Buhl Sons & Co		Sheet iron, etc.
	860	Gardner Elevator Co	1 00	
	861	Central Paint & Glass Co		Sash, glass, etc.
	862	H. D. Edwards & Co		Hose nozzles, etc.
	863	Mich. Stamp & Sten. Mfg. Co		Linen markers.
	864	Keenan & Jahn		Casters.
	865	Fire Extinguisher Mfg.Co		Hose.
	866	Ruelle's Harbor Tug Line		Tug services.
	867	W.A.Sturgeon & Co		Repairs.
	868	Jewett, Bigelow & Brooks		Coal.
	869	G. H. Clippert & Bro. Br. Co.		Brick.
	870	J. D.Candler & Co	15 13	Repairs.
	871	Pay roll laborers, linemen		
		and painters		Extensions and painting
	872	Pay roll Department		Last half May.
	873	Jacob Kotb	1,550 00	Horses.
T	otal fo	r May	\$47,709 30	

JUNE.

11	874	Peninsular E.L.Co	275.00	Light.
**	875	Edison III. Co		Light.
- 1	876	Hoyt Post, Trustee	24 71	Light.
	877	Adam J.Orth	58 14	Repairs.
	878	Jacob Brand	1.745 00	Final est, Eng. Ho. No. 25.
	879	Essler & Co	2 40	Repairs.
	880	Mich Electric Co	34 59	Wire, etc.
	881	Gray Brothers	234 72	Repairs.
	882	Office Toilet Supply Co	37 50	Washing.
	883	John L. Dexter & Co	195 95	Hay,
	884	A.J. Heidenreich	75	Shiker.
	885	Detroit Riv. Gas. Eng. Wks.	179 18	Repairs.
	886	Parke, Davis & Co	1 00	Rental.
	837	The Pullman Co	10 00	Rental.
	888	Farrand, Williams & Clark.	5 94	Brushes.
	889	Sales & Broad	57 63	Pipe and fittings.
	890	Central Paint & Glass Co	15 65	Glass, etc.
	891	Peninsular L.&C.Works	121 50	Paint.
	892	James Walker & Son	84 61	Pipe.
	893	Limbach Sons & Co	1 00	Bolts.
	894	Noack & Gorentlo	7 60	Clocks.
	895	M. N. Row'ey Co	5 75	Pulls.
	896	John Naylon & Co	38 75	Bits and blankets.
	897	J.C.Goss & Co	33 65	Awnings.
	898	I.L. Scheinman & Co	36 01	Wiping rags.
	899	Hunton, Myles & Weeks		Lumber.
	900	Geo.C. Wetherbee & Co	58 09	Supplies.
	901	J. F. Baisch	2 90	Keys.
	902	Burnham, Stoepel & Co	208 60	Blankets.
	903	H. VanLerberghe	27 (0)	Bedding.
	904	Pay roll linemen, laborers	i	1
		and painters	478 15	
	905	Pay roll washerwomen	154-44	
	(MAG	Pay roll horseshoers	496 81	
	907	Pay roll Department		First half June.
	908	Thos J. Kennedy		Paving and repairs.
	909	Gamewell F.A.Tel.Co	126 25	
18	910	J.E. Bowles L. & W. Works.	185 00	
	911	Edward Sprague	37,50	Repairing, etc.
	912	Currie & Conn	3 00	Cedar blocks.
	l	ł	1	1

JUNE-Continued.

Date.	No.	NAME.	Amount.	FOR WHAT PAID.
18	913	F.G.Barton	135 25	Fixtures.
•	914	Malcomson & Higginbotham	195 46	Supt. Eng. House No.26.
	915	Fred. Bamford & Co	27 50	Lettering.
	916 917	Henry Carew & Co Union Brass & Iron Works.	1,506 00 108 23	Final est. Eng. Ho. No. 2
	918	W.H.Anderson & Sons	13 05	Repairs, etc. Tools, etc.
	919	Banner Laundering Co	53 00	Washing.
	920	Banner Laundering Co Detroit L. P. & S. L. Wks	93 67	Pig lead.
	921 922	G. H. Clippert & Bro. Bk. Co.	153 00	Brick.
	923	The C. H. Little Co	67 75 7 76	Sand. cement, etc. Castings.
	924	Am Car & Foundry Co	88 84	Pipe.
	925	Am Car & Foundry Co C. W. Restrick	1,165 83	Lumber.
	926	Stanley B. Smith	33 00	Coal.
	927 928	Detroit City Gas Co	7 55 317 36	Light.
	925	A. Y. Malcomson W. T. Bowen	198 26	Coal. Coal.
	930	Scoffeld, Shurmer & Teagle.		Kerosene oll.
	931	Ockford Printing Co	2 25	Printing.
	932	Gregory, Mayer & Thom Co.	22 95	
	933 934	Mich. Stam & Sten. Mfg. Co.	89 74	Rubber stamps.
	935	Fire Extinguisher Mfg.Co	43 51	Extinguishers, etc. Drugs, etc.
	936	Mich. Drug Co Morgan, Puhl & Morris	23 30	Fire hats and insignias.
	937	Public Lighting Commiss'n	1 25	Inspection.
	938	Detroit Waste Works	10 53	Waste.
	939 940	Jenks & Muir Mfg. Co	292 50 3 00	Beds, etc.
	941	Armstrong Regalia Co F.G.Johnston	3 (0) 11 90	Service stripes. Harness, etc.
	942	Mich. Drug Co	2 11	Drugs.
	943	Russell Wheel & F'dry Co	15 62	Weights
	944	Harper Hospital	127 14	Board.
•	945 946	H.D. Edwards & Co Strong, Lee & Co	165 81 10 56	Sundries.
	947	John Lauer	72 00	Pillow slips. Trace snaps.
	948	Buhl Sons & Co	1 58	Rod iron.
	949	John L. Dexter & Co	176 82	Hay.
	950	David Stott	43 40	Bran.
	951	Detroit Horse Bedding Co	82 75	Shavings.
	952	John Fellrath	46 00 5 05	Shavings and kindling. Harness repairs.
	954	Gustav R. Jacob	6 10	Harness repairs.
	955	Chas. F. Graulich	9 30	Harness repairs.
	956	Wm.Parker	4 28	Harness repairs.
	957 958	Fred Feldman	6 33 1 25	Harness repairs.
	959	C. G. Johns		Harness repairs. Wire and switch.
	960	Henry L. Walker	308 10	Wire.
	961	Central Paint & Glass Co	37 41	Paint and brushes.
	962	Sam'l F. Hodge & Co	598 79	Repairs.
	963 964	Detroit Lubricator Co	3 50	Lubricator.
	965	Fred'k Kahl	1 65 60 89	Grates. Coupling, repairs, etc.
	966	Chas. Rohde & Co	354 05	Wagon and repairs.
	967	Detroit Shipbuilding Co	12 55	Ferrules.
	968	Cooper Hose Jacket Co	130 83	
25	969	Pay roll Department	19,170 08	Last half June.
	3,0	and painters	577 39	Extensions and painting
•	atal a	June	\$51,304 83	

GENERAL SUMMARY OF EXPENSES.

Running expenses	\$513,777	68
Water extension	21,662	68
Fire alarm telegraph	4,884	6 [
Extra parts of apparatus	488	83
Equipment	87,277	00
Insurance	558	50
New hose and suction	6,883	00
New horses	8,790	00
Construction	49,438	26
-		-

\$693,760 56

GENERAL SUMMARY OF RUNNING EXPENSES.

Pay rolls	\$443,865	58
Hay, oats and bedding	13,095	57
Harness and repairs	1,119	19
Horseshoeing	6,054	64
Engine repairs	5,865	97
Hose wagon repairs	2,554	77
Wagon repairs	2,174	68
Truck repairs	3,789	71
General supplies	7,995	27
Washing	2,957	94
Fuel	10,164	80
Light	1,821	99
Building repairs	10,234	80
Printing and stationery	748	26
Hose and suction repairs	1,334	51

\$513,777 68

RUNNING EXPENSES PER COMPANY.

Engine No. 1	\$11,669	10
Engine No. 2	12,237	50
Engine No. 3	13,318	34
Engine No. 4	13,485	13
Engine No. 5	13,346	84
Engine No. 6	13,522	62
Engine No. 7	13,200	23
Engine No. 8	13,245	93
Engine No. 9	12,627	27
Engine No. 10	13,336	3 8
Engine No. 11	11,889	98
Engine No. 12	12,203	71
Engine No. 13	12,696	82
Engine No. 14	13,085	31
Engine No. 15	12,132	46
Engine No. 16	16,200	02
Engine No. 17	11,801	87
Engine No. 18	12,569	91
Engine No. 19	12,359	98
Engine No. 20	13,003	24
Engine No. 21	12,146	64
Engine No. 22	12,123	98
Engine No. 23	12,360	39
Engine No. 24	11,933	86
Engine No. 25 (one month)	1,196	45
Engine No. 26 (one month)	213	31
Hose No. 1	4,252	51
Hose No. 2	4,676	56
Chemical No. 1	4,396	94
Ladder No. 1	10,648	46
Ladder No. 2	11,602	80
Ladder No. 3	11,760	22
Ladder No. 4	12,161	88
Ladder No. 5	13,521	64
Ladder No. 6	14,031	
Ladder No. 7	12,534	50
Ladder No. 8	12,040	67
Ladder No. 9	11,416	72
Ladder No. 10.	11,916	
Water Tower No. 1	7,946	87
Reserve	1,903	65

Supply Water	-	
Telegraph		-
Supply stable	•	
Headquarters		76
	\$513,777	<u></u> 68

HYDRANTS, EXTENSIONS AND REPAIRS

New hydrants		\$ 5,023 7 5
EXTENSIONS AND REPA	IRS.	
Labor	\$7,016 68	
Special castings	871 11	
Tools	226 09	
Plugs	16 52	
Inspection and paving	247 94	
Pig lead	722 91	
Hydrant repairs	303 50	
Sand, cement and lime	168 98	
Wood	61 75	
Brick	420 00	
Valve leathers	18 03	
Packing	40 76	
Pump repairs	73 68	
Gates and gate boxes	3,265 00	
Sleeves and valves	139 18	
Lumber	787 48	
Iron pipe	1,807 73	
Drains	53 87	
Hydrant fixtures	32 94	
Cistern repairs	59 40	
Repairs to tools	12 75	
Hydrant drains	15 48	
Iron pipe for drainage	12 68	
Gaskets	100 80	
Tubing	1 10	
Reducers	19 05	
Connections	68 98	
Sheet lead	2 37	
Salt	12 50	

Paint	85 50	
Acid	10	
Couplings	1 50	
Pipe line repairs	2 87	
		16,6

16,638 93

\$21,662 68

FIRE ALARM TELEGRAPH.

EXTENSIONS AND REPAIRS,

Labor	\$1,342 50
Hooks	3 50
Tools	17 56
Charcoal	2 70
Connections	3 50
Pins and brackets	31 28
Box repairs	1 05
Key signs	26 70
Register tape	12 80
Buzzers	40
Lamps and cord	24 10
Push buttons and knobs	4 80
Sockets	11 39
Switches	23 03
Acid receptacles	75
Iron pipe	40 99
Key tags	60 00
Box keys	25 00
Release keys	6 25
Inside door keys	3 75
Cross arms and braces	74 45
Door plates and break wheels	10 00
Rope	2 20
Boxes	250 00
Insulators	11 60
Wire	1,223 70
Fuses	1 38
Batteries	906 75
Moulding	4 50
Shade holders	8 35

Coils	8	00		
Manhole covers	16 0	00		
Cut outs	2	79		
Plugs	7	10		
Tubes	16	80		
Pulls	.7	00		
Conduit	12	00		
Inspection	1	25		
Bells	7	60		
Reel for telephone connection	10	00		
Acid	43	10		
Battery shelves	89	93		
Telephones	27	00		
		_	\$4,527	55
TELEGRAPH SUPPLIES.				
Rental telephones	\$158	58		
Conductor and battery material	61	13		
Telephone cords	2	40		
Induction coils	1	00		
Zincs	1	50		
Battery	60	35		
Telephones	33	3 0		
Bells and gongs	16	3 0		
Lamps	20	00		
Transmitter repairs	2	5 0		

\$4,884 61

ANALYSIS OF EXPENDITURES.

GENERAL SUPPLIES.

Axe handles	\$4	50
Acid and bottles	141	94
Ash buckets	40	14
Ambulance	2	00
Asphaltum	12	48
Apparatus boards	2	00
Brushes	129	86
Burrs		35
Brooms	136	50
Blankets	284	50
Bi-carbonate of soda	200	62
Badges and insignias	266	30
Baskets	9	76
Buttons	78	00
Bags	1	78
Benzine		30
Braces	1	08
Belt webbing	2	5 0
Cuspidors	4	25
Chamois	28	00
Chain	27	01
Chisels	1	60
Clocks and repairs	20	25
Coal hods	3	50
Carriages	1	25
Casters	5	55
Cartage	38	23
Camphor		25
Care of injured firemen	162	84
Drills		78
Dustpans		33
Dusters	2	00
Directories	20	25
Disinfectant	43	50
Damages	9	00
Door springs	1	40
Door trips.	10	00
Door opener	15	00
.		0-

Emergency kit boxes	5	06
Extinguisher repairs	112	67
Expenses of Chief attending convention	85	00
Files		25
Feed boxes	27	60
Furniture and repairs	22 0	63
Fire hats and coats	38	25
Faucets		20
Glass and glazing	56	84
Globes	22	5 0
Grindstones	2	70
Grain bags	21	00
Gold leaf	3	5 0
Horse medicine	68	88
Hinges	1	58
Handles	6	00
Hammers and sledges	2	18
Hooks		40
Hardware	12	91
Hat fronts	26	00
Hose clamps		15
Hose rollers	2	25
Hose coupling		10
Heater repairs	30	96
Horse clippers	19	20
Ice	225	75
Keys	5	80
Ladder straps	28	80
Latches		85
Lamps, lanterns and holders	181	31
Locks	9	25
Metal numbers	10	60
Matches	20	25
Mops and handles	26	25
Mats	1	50
Mallets		80
Molasses	7	15
Meals for firemen	64	85
Nails	25	64
Newspapers	93	65
Oil, cylinder	26	78
	o	ΛE

THE FIRE COMMISSION.	35
Ott. smales	F4 0F
Oil, engine	54 35
Oil, boiled	65 76
Oil, lard	55 45
Oil, coach	18 20
Oil, sperm	4 00
Oil cans and tanks	10 00
Oil meal	57 20
Paint	293 37
Pulleys	10 38
Pails	10 18
Pitchforks	2 13
Polish	18 50
Paint knives	2 25
Rope and rope holders	55 56
Rubber stamps	2 25
Rakes	4 70
Robes	14 50
Rubber rings	6 5 0
Reducers	9 00
Rental of truck	10 00
Repairing pitcher	35
Rubber gloves	15 30
Rubber cement	2 50
Service stripes	20 65
Sand paper	14 70
Stoves, furnaces and repairs	2,168 77
Sponges	573 63
Sash and shade cord	14 14
Sprinklers	4 50
Screws	7 80
Shovels	22 43
Screw drivers.	70
Saws	35
Step ladders	I 60
Snaps	39 52
Service belts	55 90
Soap	190 38
Soap dishes	50
Spanners and straps	45
	1 50
Springs	18 00
Short and miller coord	
Sheets and pillow cases	331 25

ANNUAL BEPORT OF

Solder	9	24
Salt sacks	26	00
Spun cotton	26	4 0
Smoke protectors	18	00
Stove boards		85
Stencils	3	6 0
Sal soda	27	61
Telegrams	2	97
Turpentine	45	03
Twine		2 0
Toilet paper	77	5 0
Towels	5	25
Telephone service		45
Tin tube		5 0
Varnish	79	40
Wrenches	17	40
Wiping rags	155	83
Waste	48	56
Whips	79	00
Wicking	3	3 5
Wire cloth	5	33
Washers and cutters		85
Water cooler	4	75
Weather strips		67
Whiting	7	39

\$7,995 07

RECAPITULATION OF INVENTORIES FOR YEAR ENDING JUNE 30, 1901.

No. 1 Engine Company	\$10,096	58
No. 2 Engine Company	20,700	43
No. 3 Engine Company	23,971	23
No. 4 Engine Company	17,881	14
No. 5 Engine Company	20,943	62
No. 6 Engine Company	28,000	61
No. 7 Engine Company	24,650	32
No. 8 Engine Company	29,115	69
No. 9 Engine Company	26,629	04
No. 10 Engine Company	23,653	07
No. 11 Engine Company	92,362	09
No 12 Engine Company	21,758	
No. 13 Engine Company	21,995	
No. 14 Engine Company	20,717	16
No. 15 Engine Company	22,724	
No. 16 Engine Company	115,577	43
No. 17 Engine Company	25,536	87
No. 18 Engine Company	24,034	04
No. 19 Engine Company	28,095	
No. 20 Engine Company	18,964	66
No. 21 Engine Company	18,652	
No. 22 Engine Company	19,360	
No. 23 Engine Company	19,844	
No. 24 Engine Company	20,124	
No. 25 Engine Company	64,302	
No. 26 Engine Company	24,399	
No. 1 Ladder Company	5,591	
No. 2 Ladder Company	26,868	
No. 3 Ladder Company	18,017	
No. 4 Ladder Company	13,923	
No. 5 Ladder Company	15,662	
No. 6 Ladder Company	26,550	
No. 7 Ladder Company	19,514	
No. 8 Ladder Company	25,034	
No. 9 Ladder Company	21,469	
No. 10 Ladder Company	18,036	
No. 1 Hose Company	5,018	
No. 2 Hose Company	15,711	35

No. 1 Chemical Company	11,223 22
No. 1 Water Tower Company	5,469 14
Telegraph Department	251,548 91
Supply Stables	19,472 58
Superintendent of Apparatus, supplies and extra parts,	4,573 75
No. 1 Supply	530 OO
No. 2 Supply	580 OO
No. 3 Supply	460 00
No. 4 Supply	496 00
No. 5 Supply	561 00
No 6 Supply	536 OO
Supply Department	1,465 22
Extra property	29,890 00
Headquarters' building, lot and furniture	67,213 50
Chief of Department	499 50
Assistant Chief	472 50
Chief of First Battalion	522 50
Chief of Second Battalion	472 50
Chief of Third Battalion	522 50
Chief of Fourth Battalion	497 50
Chief of Fifth Battalion	472 50
Chief of Sixth Battalion	437 50
Superintendent of Apparatus	484 50
Assistant Superintendent of apparatus	302 50
Fire Marshal	457 50
Assistant Fire Marshal	417 50
Water Supply Department	4,505 45
Orchard street house and lot	2,000 00
Hydrants and cisterns	474,307 33

\$1,808,880 99

ANNUAL REPORT

OF

THE CHIEF OF DEPARTMENT.

DETROIT, January 1, 1901.

To the Honorable the Fire Commission:

Gentlemen—I have the honor to submit to your honorable body my annual report for the year ending December 31, 1900, which shows the number of fires and alarms to have been nine hundred and eighty-four (984), a decrease of one hundred and six from those of last year. The total loss was five hundred and eighty-six thousand, six hundred and ninety-three dollars (\$586,693).



CLASSIFICATION OF LOSSES.

Eight hundred and ninety-nine fires occurred during the year 1900 with the following result:

392	where no losses are reported.	
266	where the losses were less than	\$100 00
155	where the losses were from\$100 00 to	500 00
35	where the losses were from 500 00 to	1,000 00
37	where the losses were from 1,000 00 to	5,000 00
4	where the losses were from 5,000 00 to	10,000 00
1	where the loss was	15,220 00
1	where the loss was	18,257 00
1	where the loss was	18,694 00
1	where the loss was	19,345 00
1	where the loss was	20,000 00
1	where the loss was	21,421 00
1	where the loss was	33,427 00
1	where the loss was	43,229 00
1	where the loss was	60,879 00
1	where the loss was	71,040 00

899 total number of fires

Respectfully submitted,

JOHN KENDALL,

Chief of Department.

DETAILED STATEMENT

OF

FIRES, LOSSES, INSURANCE, Etc.

JANUARY.

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Date	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
		ļ	·	
1	206 Cleveland st	None		Hot ashes.
1	621 Twelfth st	\$19	\$600	Sparks from pipe.
1	1572 River st	None		Overflowing gasoline stove.
1	105 Adams ave	10	None	Burning soot.
1	378 Franklin st	None		Burning chimney.
1	Out of city		••••	
1	126-8 Michigan ave	174	3,000	Kerosene lamp fell.
2	211 Boulevard east	15	None	Hot ashes.
2	386 Canfield ave.east	200	1,000	Thawing water pipe.
2 2	92 Alexandrine ave.east	1,508	3,700	Ciothing too near stove.
2	292 Gratiot ave	None None		Overheated oil stove.
3	275 Second st	18,257		Burning chimney. Electric flat irons.
3	102 Jones st	None	58,500	Wood too near stove,
8	120 Michigan ave	None		Thawing water pipe.
4	74 Elizabeth st	None		Smoke from stove.
5	31 Jefferson ave	28	None	Stove too near woodwork.
5	12th st and Hancock ave	None		Box pull. by unknown person.
5	647 Beaubien st	286	650	Defective stovepipe.
5	Foot of Jos. Campau ave	None		Bonfire.
6	271 Russell st	25	None	Careless use of match.
6	335 Montcaim st.east	290	2,000	Children play'g with matches.
7	268-74-76 Baker st	124	.50	Hot ashes.
7	123-5 Congress st.west	8	9,000	Coals from fireplace.
7	99 Pierce st	None		Burning chimney.
8	678 Fourteenth ave	None		Overflowing gasoline stove.
10	41 Dane st	5	None	Overheated smokehouse.
10	117 Michigan ave	None		Overflowing gasoline stove.
10	252 Woodward ave	None		Smoke from furnace.
11	645 Warren ave.east	240	3,000	Leaking gas pipe.
12	238 Willis ave.east	87	800	Burning chimney.
12	Bellevue av. and Berlin st.	18	8,500	Heat from boller.
12 12	1155 Woodward ave	None		Overheated stove.
13	8 Davis place	None		Burning chimney.
13	170 Gratiot ave	None 591		Sparks from pipe.
14	863 Superior st 213 Sullivan ave	124	700 800	Clothing too near stove. Overheated stove.
15	245 Winder st	5	300	Overheated stove,
15	Magnolia and 23rd sts	None	300	Crossed electric light wires
16	660 Alexandrine ave	125	350	Child knocked lamp off table.
16	998 Michigan ave	47	2,400	Burning grease.
16	M.C.R.R. & Foundry st	None		Molten iron
16	975 Twelfth st	159	1,200	Oil stove collapsed.
18	329 Michigan ave	338	4,250	Lamp exploded.
18	36-40 Woodward ave	20,268	74,950	Defective crude oil burner.
18	1279 Michigan ave	201	3,075	Cigarette smoking.
20	Michigan & Hubbard ave.	None	l	Box pull. by unknown person.
20	36 Woodward ave	None		Smoldering from a prev. fire.
20	344 Jefferson ave	65	5,000	Careless use of match.
20	125 Waterloo st	None		Wood too near stoye.
20	Fort and First sts	None		Faise call by telephone.
21	72 Labrosse st	None		Overheated stovepipe.
21	153 Mullett st	156	1,500	Careless use of match.
21	425 Gratiot ave	None		Child pulled lamp of table.
22	901 Vinewood ave	65	1,300	Children play'g with matches.
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JANUARY-CONTINUED.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
222244455527778222222222222222355555	399 Hubbard ave	\$706 792 None None None None 15 None 35 350 6,369 20 None None None None 21,115 None None None 24 43 55%	\$1,075 2,800 None 400 3,000 32,290 600 None 13,000 9,000 1,200 6,000 6,000	Careless use of matches. Overheated stovepipe. Careless use of matches. Sparks from locomotive. Burning chimney. Leaking gas pipe. Box accidentally set off. Children play'g with matches. Meat cooking on stove. Flying sparks. Incendiary. Incendiary. Overheated stove. Burning chimney. Lamp exploded. Sparks from pipe. Leaking gas pipe. Overheated off accidentally Flying sparks. Bedding too near stove. Plasterer's salamander. Overheated furnace. Overheated furnace. Overheated furnace.
_	Total for January	\$57,409	\$253,890	

FEBRUARY.

1	271 Greenwood ave	None		Burning chimney.
ī	825 Jefferson ave	None		Burning soot.
ī	208 Michigan ave	None		Escaping steam.
ī	843 Orleans st	44	1,500	Sparks from pipe.
Ž	301 Second st	lis	8,000	Careless use of matches.
2	275 Third st	None	0,000	Thawing water pipe.
$\tilde{2}$	373 Twenty-fifth st	1010	300	Overheated stove.
2	34 Elizabeth st. west	None		Smoke from stove.
2	195-7 Jefferson ave	None		Plasterer's salamander.
8	377 Putnam ave	143	5,000	Lamp exploded.
š	234 Eliot st	None	1	Wood too near stove.
8	237-41 Woodward ave	57,890	159,473	Spontaneous combustion.
4	102-4 Michigan ave	50	25.000	Incendiary.
5	380 Canfield ave	None	20,000	Burning chimney.
5	38 Grandy ave	None		Overheated smokehouse.
5	288 Winder st	277	2,100	Child pulled lamp off table.
5	305 Willis ave	142	750	Overheated stovepipe.
6	647 Beaubien st	None		Plasterer's salamander.
ő	717 Champlain st	None		Defective chimney.
7	648 Woodward ave	25	None	Overheated furnace.
8	Fifth and Congress sts	None		Hot iron.
8	86 Fort st. west	None		Smoke from chimney.
9	1915 Jefferson ave	None		Leaking gas pipe.
9	Lafayette ave. & Third st.	None		Box pull, by unknown person.
9	562 Twenty-third st	30	800	Overheated oil stove.
9	571 Chene st	None		Overheated stove.
10	226 Second st	12	None	Children play'g with matches.
ii	975 Russell st	745	2,100	Defective stove.
ii	Fourth and Abbott sts	None	2,100	Box pull, by unknown person.
ii	417 Sherman st	836	2,400	Careless use of matches.
	*** **********************************	330	2,400	Careicas uso of materies.

FEBRUARY-CONTINUED.

MARCH.

Date.	LOCATION.	Loss.	Insur'ce.	Cause of Fire or Alarm.
1	98 Leverette st	\$620	\$1,300	Careless use of match.
1 1	27 Brainard st	None		Overheated furnace.
î	340 Alexandrine ave 302 Twenty-fourth st	18	1,000 1,500	Defective chimney. Careless use of match.
1	265 Monroe ave	None	1,000	Overheated stove.
1	265 Monroe ave	1,052	3,900	Lamp exploded.
2 2	308 Kandolph st	297 115	5,500	Defective stovepipe.
4	933 Jefferson ave 664 Gratiot ave	41	7,000 500	Gas light too close to curtain. Lamp too close to woodwork.
4	1496 Twenty-fourth st	2,965	2,400	Overheated stove.
4	1496 Twenty-fourth st 208-10 Randolph st	1,207	62,000	Sparks from pipe.
4	86-8 Gratiot ave	None None	•••••	Smoke from plas. salamander
5	357 Dix ave	6	1,000	Thawing water pipe. Burning chimney
5	221 Larned St. east	21	2,000	Careless use of match.
5 5	Adams ave. west	None	8,700	Careless use of match.
6	Russell House	None		Smoke from chimney. Burning chimney.
6	Out of city	1		
7	12-14 Atwater st. east	9,206 780	24,000	Electric wires.
7 8	16 Adams ave. west 275 Twenty-third st	103	4,800 1,400	Careless use of match. Defective chimney.
8	33-5-7 State st	None	1,400	Electric light.
8	223 Willis ave. west	55	3,400	Careless use of match.
8 9	147 Congress st. west	25 18	1,500	Gas light too close to dresser.
9	21 Woodward ave	None	1,600	Sparks from stove. Smoke from chimney.
11	83 Park ave	25	None	Hot ashes.
12	83 Park ave 1483 Woddward ave	None		Telephone fuse burned out.
12 12	michigan & Huddard avs.	None	••••	Thawing water pipe. Overheated gas stove.
18	78 Farrar st	26	300	Overflowing gasoline stove.
18	86 Fort st. west	None		Sparks from chimney.
14 14	171 Antietam st	76 85	500	Overflowing gasoline stove.
15	2-4-6 Monroe ave	44	38,000 2,050	Men smoking. Careless use of matches.
15	738 St. Antoine st	20	800	Incendiary.
15 16	*3 Lafayette ave	32 1,026	8,000	Defective hearth.
16	67 Columbia st. west 386 McDougall ave	None	11,100	Overheated furnace. Overheated smoke house.
17	82 Macomb st	99	500	Defective chimney.
18	584 Humboldt ave	1,921 123	8,900	Overheated stove.
18 18	24 Maybury ave 996 Trumbull ave	80	1,300 2,500	Careless use of matches. Lamp too close to curtain.
19	1181 Jefferson ave	801	4,200	Careless use of matches.
19	1299 Van Dyke ave			Lamp upset.
20 20	Western High School	None 27		Plasferer's salamander.
21	481 Twenty-fourth st 244 Adams ave. east	8	400 2,500	('areless use of matches. Overheated fireplace.
21	258 Sherman st	None		Smoke from smokehouse.
22 22	Larned and Sheiby sts	None 305		Auxiliary wires crossed.
24	14831/4 Russell st	5	None	Leaking gasoline lamp. Sparks from chimney.
24	276 Townsend ave	60	1,250	Careless use of matches.
24	60 Henry st	25	1,050	Sparks from chimney.
24 24	272 Montcalm st. east 947 Rivard st	None	1,500	Lamp exploded.
25	386 Franklin st	156	1,200	Overheated smokehouse. Flying sparks.
25	1410 Fort st. west	951	1,500	Flying sparks. Coals from stove.
26 27	274-6 Thirteenth st	1,141 None	2,170	Careless use of matches.
27	858 Gratiot ave	88	500	Overflowing gasoline stove. Leaking gasoline stove.
27	338 Livernois ave	None		Sparks from locomotive.
28 29	238 Woodward ave	33,427 60	69,250	Electric wires.
29	739 Joseph Campau ave 162 Russell st	601	100 1,300	Careless use of matches. Lamp exploded.
29	276 Hastings st	97	4,700	Leaking gasoline stove.
81	47 Washington ave			Flying sparks.
	Total for March	\$ 58,119	\$294,670	

APRIL.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
Ã	LOCATION.	LUSS.	Insui co.	CAUSE OF FIRE OR ALARM.
1	607 Cass ave	\$45	\$3,000	Flying sparks.
î	351 Tillman ave	130	500	Defective chimney.
î	Russell House	None		Overheated pan of grease.
ī	524 Riopelle st	107	200	Boys smoking.
2	809 Rowena st	220	250	Hot ashes.
2	181 Spruce st	None		Leaking gas pipe.
2	689 Twelfth st	None		Leaking gas pipe. Smoke from salamander.
8	Harper ave.and L.S.K.K.	874	400	Defective chimney.
4	92 Calumet st	10	None	Careless use of matches.
4	355 Abbott st	30	2,200	Flying sparks.
4	26 Madison ave	None		Careless use of matches.
5	398 Fourth ave		8,000 300	Careless use of match.
5 5	624 Monroe ave	None	300	Defective chimney.
5	380 St. Aubin ave	7	600	Overheated smokehouse. Flying sparks.
5	302 Fort st.east	74	1,500	Alcohol vapor.
5	625 Jefferson ave	None	2,000	Sparks from locomotive.
6	Humboldt av & Buchanan	None		R. R. signal light.
7	103 Gratiot ave	266	4,950	Careless use of matches.
8	734 Rivard st	24	850	Sparks from stove.
9	27 Putnam ave	None		Defective hearth.
9	164 Russell st	None		Burning chimney. Defective hearth.
9	27 High st.east	30	5,000	Defective hearth.
10	281 Maybury ave	870	1,400	Cigarette smoking.
10	27 Putnam ave	None	*******	Burning chimney.
10	76 Fort st.east	16	4,000	Flying sparks.
10	364 Twelfth st	None	800	Burning chimney.
10 10	369 Champlain st	20 65	2,225	Flying sparks.
10	231 Concord ave Trumbull av. & Lysander.	None	2,220	Careless use of gasoline.
ii	484 Twenty-third st	591	8,000	Burning grass. Defective chimney.
ii	842 Franklin st	5	None	Flying sparks.
īī	88 Foundry st	1ŏ	50	Flying sparks.
12	374 Atwater st	5	None	Overheated smokestack.
12	913 Grand River ave	46	1,000	Careless use of match.
12	340 Third st	None		Flame from gasoline stove.
14	97 Williams ave	None		Burning chimney.
15	521 Humboldt ave	. 167	1,100	Overheated stove.
17	Gratiot av. & Randolph st.	None	•••••	Could find no cause.
18 18	10 Napoleon st	None		Gas stove.
18	256 Woodward ave South s. Woodbridge st w.	None	·····	Careless use of gasoline.
10		None	l .	Flying sparks.
18	of Leib st 246 Woodward ave	648	8,166	Electric wires.
19	51-3 Labrosse st	90	150	Hot ashes.
20	184 Cherry st	None		Sparks from pipe.
20	51-3 Labrosse st	None	l	Old fire broke out.
20	16 Willis ave	None		Oil stove overheated.
20	856 Cass st	None		Burning rubbish.
20	942-6 Champlain st	97	17,000	Flying sparks.
20	26 Madison ave	168	8,000	Careless use of matches.
22	91 Scott st	458	2,000	Coals from stove.
24	275 Third st	226	2,400	Defective chimney.
25 25	107 High st. w	1 007	2,000	Flying sparks.
25 25	77 Garfield ave	1,287 None	10,500	Careless use of match.
26	238-40 Woodward ave	None 24	1,200	Smoke from furnace. Defective chimney.
27	180 Beaubien st 379 Congress st.east	12	500	Flying sparks.
27	Abbott and Seventh sts	None		Box set off accidentally.
97	D.G.H.& M. & Rivard st.	100	None	Sparks from locomotive.
27	281 Greenwood ave	None	l	Hot ashes.
27	282 Canfield ave.east	1,160	2,500	Lamp exploded.
28 28	58 First st	16	2,000	Heat from boiler.
28	718 Kiver st	8	None	Careless use of match.
28	344 Willis ave	824	1,300	Children play'g with matches.
29	782 River st	15	1,000	Incendiary.
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APRIL-CONTINUED.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
29 29 29 29 29 30	700 Buchanan st	\$217 85 17 12 None None	\$750 1,200 2,000 4,000 	Lamp exploded. Careless use of match. Overflowing gasoline stove Window curtain too close to gas light. Burning chimney. Curtain too close to gas light.

MAY.

1	421 Rivard st	\$90	\$100	Incendiary.
ī	48-50 Sullivan ave	127	2,460	Children play's with matches.
ī	323 Hubbard ave	624	5,250	Children play'g with matches. Sparks from chimney.
ī	779 Grand River ave	15	2,000	Flying sparks.
1	289 Twenty-third st	None		Burning chimney.
2	19 Durand st	None		Overheated oven.
2	79 Walker st	6	500	Flying sparks.
2 2	Stanley ave. & Thirteenth.	None	l	Burning grass.
2	Mich. & Fourteenth aves.	None		Box pull by unknown person.
8	50 Alexandrine ave	80	None	Boys smoking cigarettes.
8	Foot of 181/4 st	None	<i></i>	Sparks from locomotive.
8	1140 Chene st	75	710	Sparks from pipe
4	100-12 Griswold st	301	400,710	Spontaneous combustion.
4	243 Twelfth st	184	2,200	Careless handling of matches.
4	809 Maybury ave	409	600	Careless use of matches.
5	994 Clark ave	175	None	Sparks from pipe
5	298 Erskine st	633	1,800	Overflowing gasoline stove.
5	244 third st	52	2,500	Lamp exploded.
6	134-8 Lafayette st	789	5,500	Sparks from chimney.
6	713 Nixth st	174	500	Oll stove collapsed.
7	841 Franklin st	11	1,000	Flying sparks.
7	397 Jefferson ave	15	300	Children play'g with matches.
7	395 Fourth ave	15	1,000	Oil stove overflowed.
8	Alley s. Monroe and e. St.			Tilantula limbt minos on mala
8	Aubin ave	None		Electric light wires on pole.
8	473 Wilkins st	854		Wet lime.
8	210 Napoleon st	90±	1,100	Lamp exploded.
۰	Walker sts	None		Sparks from emery wheel.
8	130 Beals ave	302	850	Children play'g with matches.
8	941-3 Congress st. east	None		Heat from boiler.
9	82 Orchard st	171	1,925	Burning chimney.
9	35 Sidney ave	None		Careless use of match.
10	102 Jones st	None		Careless use of match.
10	734 Hancock ave	817	1,520	Lamp exploded.
10	733 Twenty-fourth st	None		Hot ashes.
11	1794 Michigan ave	None		Overflowing gasoline stove.
18	51 Grand River ave	54	3,100	Oiled rags.
18	1044 Dubois st	297	2,650	Careless use of match.
18	Foot of Hastings st	250	None	Sparks from locomotive.
13	460 Seventeenth st	250	None	Leaking gas pipe.
14	100 Joy st	546	2,300	Burning rubbish.
14	Out of city			l
15	500 Trombley ave	_ 5	None	Sparks from locomotive.
17	Champlain & Belt line R.R.	None		Sparks from locomotive.
17	1 Stoeple place	161	210	Sparks from stove.
18	154 Sheridan ave	None		Burning chimney.
18	663-9 Lincoln ave	None	••••	Men smoking.
18	80 Catherine st	None		Children with matches.
18	Mich. B.&N.Co. Wight st.	None	•••••	Auxillary out of order.
	1			l .

MAY-Continued.

Date	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
19 19 20 21 21 22 22 24 24 24 25 25 26 26 26 26 26	503 Wilkins at 305 Fifth at 27 Elmwood ave 27 Cleveland st 106 Locust at 339-47 Michigan ave 287 Canfield ave 297 Canfield ave 294 Alexandrine ave 249 Alexandrine ave 241 Putnam ave 201 Wight at 1211 Lafayette ave Woodbridge & Wayne sts 258 Randolph at 358 Mt. Elliott ave 1324 Fort at 359 Twenty-fourth at 238 Randolph at 455 Sherman at 444 Monroe ave Chene and Atwater sts	None 10 154 15 None 1,310 1,70 135 36 255 None None None None 320 None 25 None 25 None 27 None 27 None 28 None 27 None 27 None 38 207	\$500 23,500 1,200 3,900 500 1,000 6,700 1,200 1,400 1,800 1,600	Overflowing gasoline stove. Careless use of matches. Cigar stub. Cigar stub. Hot ashes. Boys with matches. Hot ashes. Overheated smoke house. Flying sparks. Boy with match. Boy match. Sparks from ples of match. Careless use of match. Careless use of match. Could find no cause.
26 28 30	121-3 Napoleon st 39 Spencer st 159 Russell st	269 None 147	1,500	Lamp upset. Careless use of match. Boy with matches.
30 30 31	Jefferson av & Dequindre 344 Jefferson ave	None None 1,456	6,892	Sparks from locomotive. Careless use of match. Fire crackers.
31 31	179-81 National ave	1,187 None	3,400	Overheated cook stove. Burning rubbish in alley.
	Total for May	\$12,362	\$198,077	

JUNE.

1	657 Macomb st	None	l	Overheated lamp,
1	Chene and Macomb sts	None		Crossed electric wires on pole
2	199 Hale st	None	1	Overflowing gasoline stove.
4	1832 River st	87	1,000	Flying sparks.
4	135 Lysander st	59	1,600	Leaking gasoline stove.
4	Fifth and Plum sts	None		Box accidentally set off.
4	258 Riopelle st	5	None	Overflowing gasoline stove.
4	476 Belvidere ave	25	1,000	Children play'g with matches
4	1145 Woodward ave	None		Burning rubbish.
5	81 Randolph st	4	4.250	Flying sparks.
5	316 Clinton st	284	1,800	Overflowing gasoline stove.
5	142 Eighth st	None		Fire balloon fell on roof.
6	751 Monroe ave	596	2,800	Careless use of match.
6	479 Wilkins st	25	775	Gas explosion.
6	1105 Grand River ave	None		Spontaneous combustion.
7	Orleans st. & Trombley av.	None		Lightning on auxiliary.
7	Berry Bros. Wight st	None		Lightning on auxiliary.
7	317 Forest ave. west	106	8,200	Lightning.
7	17 State st	None		Lightning.
8	171 Atwater st	None		Friction of machinery.
8	285 Wabash ave	90	None	Careless use of matches.
8	160 Hastings st	None		Sparks from stove.
9	233 Jefferson ave	None		Overflowing gasoline stove.
9	9-11-15 Center st	1,303	4.675	Cigarette smoker.
9	Twentieth and M.C.R.R.	251	187,500	Overheated smoke house.
9	127 Seventeenth st	265	1,500	Defective gasoline stove.
9	Monroe av. and Farrer st.	None		Box pulled by drunken man.
9	83 Lafayette ave	None		('areless use of matches.

JUNE-CONTINUED.

Date.	LOCATION.	Loss.	Insur'ce.	Cause of Fire or Alarm.
10	108 Woodward ave	\$30	1,000	Overheated pan of grease.
ii	Harper ave. & Widman pl.	None		Stepped on a match.
11	187 Atwater st	None		Flying sparks.
11	300 Locust st	None		Overflowing gasoline stove. Sparks from locomotive.
11	Greenwood av. & B.C.R.R.	5	None	
12	863-5 Monroe ave	40	1,025	Gasoline fire pot.
12	Cass and Larned sts	None		Overheated kettle of tar.
12 12	525 Twenty-fourth st	None	•••••	Leaking gas pipe.
12	614 McDougail ave 54-6 Foundry st	None 74	1,500	Flying sparks. Flying sparks.
13	361 Congress st.w	71	1,000	Leaking gasoline stove.
13	288 Humboldt ave	None	1,000	Lightning.
18	170 Jos Campau ave	None		Smoke from furnace.
18	Out of city			Steamboat at Mullen's dock.
18	22 Elizabeth st. west	None		Rubbish burning in the alley.
15	354 Hastings st	86	2,800	Careless use of candle.
15	177-9 Larned st. west	None		Sparks from furnace.
16	26-28 Fort st. east	None		Auxiliary accidently set off.
16	27 St. Clair st	None		Children play'g with matches
18	498 Clay aveLarned st. w. Third	None		Flying sparks.
18	Larned st. w. Third	None		Overheated japanning.
18	114-18 Mullett st	8,505	7,000	Sparks from burning rubbish
19 19	376 Townsend ave	None	1,850	Flying sparks.
20	590 Larned st. east	None	• • • • • • • • • • • • • • • • • • • •	Boy with matches. Fire crackers.
20	882 Third st	None		Burning rubbish.
20	471 Forest ave. east	103	2,500	Overflowing gasoline stove.
20	108-5 Sheldon ave	736	1,300	Flying sparks.
21	795 Sixteenth st	20	1,200	Overflowing gasoline stove.
21	83-5 Mitchell ave	110	1,600	Careless use of match.
21	274 Elizabeth st	1,188	4,500	Children play'g with matches
21	212 Brainard st	10	None	Boys with matches.
22	493-5 Orleans st	230	64,000	Friction of machinery.
22	Foot of Twelfth st	<u></u> -		Broken carboy of acid.
22	269 Gratiot ave	7,283	23,000	Cigarette smoker.
22	Fence of Barstow school.	None	• • • • • • • • • • • • • • • • • • • •	Hot ashes.
23 24	277 Seventeenth st	None		Flying sparks.
24	Clairmont ave. & Third st.	None None		Burning grass.
25	Hastings and High sts 224 Second st	None		Burning rubbish. Boy with matches.
25	Junction & Michigan aves.	None		Burning rubbish.
26	93 Shelby st	None		Overheating.
26	891 Beaufait ave	None		Overheated gas stove.
27	517-19 Clinton st	211	2.000	Leaking gasoline stove.
27	302 Rowena st	701	1,275	Carelesss use of match.
28	155 Henry st	10	200	Flying sparks.
28	708 Fourth ave	None		Fire crackers.
28	206 St. Aubin ave	93	5.500	Old rags.
29	738 St. Antoine st	62	8,500	Boys with matches.
29	625 St. Aubin ave	None		Boys smoking cigarettes.
29 30	623 St. Aubin ave Scotten ave. & L.S.R.R	None		Flying sparks.
3 U	Deciment ave. of L.S.R.R	None		Sparks from locomotive.
	Total for June	\$17,671	\$336,000	

JULY.`

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR YLARM
<u> </u>				
1	659 Grand River ave	None		Burning chimney.
1	87-91 Fort st. west	\$48,329	96,000	Stereotype furnace.
1 1	1271 Woodward ave 463 Champlain st	None None		Hot ashes. Overflowing gasoline stove.
2	463 Champlain st Sullivan ave. & M.C.R.R.	1,500	None	Overheated asphalt.
2	174 Chandier ave	None		Careless use of match.
2 2 2 2	Preston schoolhouse fence	5	None	Boys smoking cigarettes.
2	896 Michigan ave	57 628	1,000 7,200	Careless use of match.
$\frac{2}{2}$	918 Grand River ave 60 Laferty st	None	7,200	Defective oven. Fire cracker.
3	309 Macomb st	51	1,000	Overflowing gasoline stove.
3	774 Dubols st	None		Fire cracker.
3 4	32 Monroe ave	160 355	7,500	Fireworks.
4	57 Monroe ave	None	12,500	Fire crackers Fireworks
	44 Cherry st	None		Smoke from chimney.
4	557 Champlain st	None		Boys burning gun powder.
4	302 Michigan ave	None		Fireworks.
4	Hotel Cadillac 510 St. Antoine st	None 965	2,000	Auxiliary out of order.
4	510 St. Antoine st	None	2,000	Incendiary. Sparks from preceding fire.
4	458 Alfred st	None		Fireworks.
4	27 St. Clair st	None		FIFEWORKS.
4	343 Clinton st	None	None	Fireworks.
4	184 Michigan ave 155 Nineteenth st	None 8	600	Fireworks. Fireworks.
5	253-5 Erskine st	245	None	Fireworks.
5	849 Superior st	None		Overflowing gasoline stove.
5 5	Junction & Michigan aves.	None		Burning rubbish. Sparks from pipe
5 5	625 Fort st. West	None None		Sparks from pipe.
5	249 Warren ave. east 376 Toledo ave	None		Benzine too near light. Lamp exploded.
5	526 Fifteenth st	450	250	Fire crackers.
6	195 Third st 36 Clifford st	800	None	Careless use of match.
6	36 Clifford st	None	4,000	Careless use of match.
7	18 Dalzelle st 96 Woodward ave	None		Overflowing gasoline stove Smoke from chimney.
7	Foot of Concord ave	500	None	Lighted match too near gas'le.
7	412 Hibbard ave	None		Lightning.
7	132-4 Gratiot ave	97	8,200	Sparks from pipe.
8	91 Grand River ave	None None		Smoke from furnace.
8	239 Columbia st. east	None		Smoke from burning meat. Overflowing gasoline stove.
8	173 Fourteenth ave	None		Overflowing gasoline stove.
8	326 Orleans st	None		Overflowing gasoline stove.
9	892 Scotten ave	800	None	Hot ashes.
9	320 McDougall ave 699 Howard st	None	2,550	lamp exploded.
9	Russell House	None		Flying sparks. Overheated grease.
10	14 Bagley ave	149	4.000	Careless use of match.
10	619 Sixth st	8	2,500	Overflowing gasoline stove.
11 11	66 Warsaw place	None	1,400	Hot ashes.
11	1506 Michigan ave 272 Adelaide st	None 9	600	Burning rubbish. Overflowing gasoline stove.
12	47012 Catherine st	None		Burning rubbish.
12	69-71 Larned st.east	None		Electric wires.
13	Foot of 18½ st	750 None	None	Heat from boller.
13 13	151 Summit ave	None None		Careless use of match.
13	1132-4 Chene st	135	50	Burning rubbish Children play'g with matches.
13	936 Michigan ave	None		Overflowing gasoline stove.
13	267 Monroe ave	None	l i	Children play'g with matches.
13 13	813 Twenty-fourth st	None	1,100	Boys playing with fire.
13	290 Third st	None		Lamp upset. Flying sparks.
13	64 Congress st	1,813	21,950	Spontaneous combustion.
		1		•

JULY-CONTINUED.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
18	381-3 Hastings st	\$333	\$800	Lamp exploded.
14	1282 Dubois st	282	500	Overflowing gasoline stove.
14	140 Madison ave	None		Grease burning on stove.
14	916 Congress st. east	72	1,100	Lamp exploded.
14	1431 Michigan ave	None		Smoke from burning rubbish.
15 15	366 Hastings st	32 20	None	Careless use of match.
15	10 Lafayette ave	None	None	Curtain too near gas light. Incendiary.
16	1223 Fifteenth st	None		Overflowing gasoline stove.
16	36 Michigan ave	None		Overflowing gasoline stove
17	834 Third st	None		Overflowing gasoline stove. Children play'g with matches.
17	109 Chestnut st	50	None	Overflowing gasoline stove. Sparks from locomotive.
17	213 Bellevue ave	11	300	Sparks from locomotive.
17 18	175 Orleans st	None		Overflowing gasoline stove.
18	306 Clay ave	10 335	250 8,599	Boys playing with matches.
19	324 Humboldt ave	None	8,099	Overflowing gasoline stove. Leaking gas pipe.
19	112 Mullett st	None		Flying sparks.
19	149 Montcalm st	119	1,500	Careless use of match.
20	370-2 Bellevue ave	1,200	4,000	Careless use of match.
20	1640 River st	85	1,000	Overflowing gasoline stove.
20 20	269 First st	15	8,000	Careless use of gasoline.
20	224 Sherman st	None		Leaking gas pipe.
23	Canfield and Grandy aves.	None 5	None	Flying sparks. Could find no cause
23	577 Leland st	None		Child playing with matches.
24	10 St. Albertus place	40	None	Hot ashes.
24	91-99 Lelb st	None		Careless use of gasoline.
24	Russell st. and Clay ave	None		Lightning.
24	256 Livernois ave	14	1,000	Lightning.
24 24	Sullivan ave. & L. S. R. R.	None		Escaping steam
25	342 Gratiot ave 217 Rowena st	40 599	2,000	Sparks from cigarette.
25	370 Elizabeth st. east	4,547	900 9,100	Incendiary. Sparks from furnace.
25	12 Montealm st	20	4,000	Overflowing gasoline stove.
25	223 Michigan ave	70	7,000	Overflowing gasoline stove.
25	Foot of Rivard st	None		Overflowing gasoline stove. Sparks from locomotive.
26	131 Brush st	None		Careless use of match.
26	81 Lafayette st	None		Sparks from pipe
26 26	Rose near Twentieth st	2,155	38,000	Overheated smokehouse.
27	36 Monroe ave 349 Superior st	15,220 None	26,850	Electric light wires.
27	Foot of Beaubien st	100	None	Boy playing with matches. Leaking gas pipe.
28	238 Russell st	None	Моще	Flying sparks.
29	111 Bates st	10	500	Sparks from pipe.
29	883 River st	None		Incendiary.
30	194 Michigan ave	99	1,000	Careless use of match.
30	21 Scott st	276	825	Overflowing gasoline stove
30 81	347 Rowena st	None		Child playing with matches.
31	Out of city	307	1,050	Cureloss use of metab
81	131 Tillman ave	None	1,030	Careless use of match. Overflowing gasoline stove.
81	465 Thirteenth st	None		Burning rubbish.
81	Sullivan ave. & M.C. R. R.	None		Could find no cause.
31	134 Mullett st	None		Burning rubbish.
31 31	308 Winder st	None		Overflowing gasoline stove.
91	842 River st	2	None	Incendiary.
	Total for July	\$79,307	\$279,675	

AUGUST.

Date	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM
1	388 Grand River ave	\$200	\$250	Overflowing gasoline stove. Electric light wires.
1	418 Woodward ave 214 Elm st	275 94	30,000 2,900	Children play'g with matches
î	187 Atwater st	None	2,500	Flying sparks.
2 1	187 Atwater st	18	1,750	Lamp fell.
8	334 Gratiot ave	296	3,500	Cigar stub.
4	880 Eighteenth st	None		Burning rubbish.
6 6	Pingree and Third aves	None		Burning grass. Could find no cause.
7	Woodward & Edmund pl 427 Beaublen st	None 12		Sparks from pipe.
7 7 7 7 8	8 Miller st	None	1,000	Burning rubbish.
7	179 Park st	None		Burning rubbish.
7	142 Adams ave	47	1,800	Burning rubbish. Sparks from chimney.
7	Mt. Elliott & Gratiot aves.	None		Street car motor burned out.
	259 Grand River ave	None	••••	Burning rubbish.
8 9	173 Bellevue ave 108 Congress st	None 387	2,500	Flying sparks. Hot ashes.
10	915 Chene st	1,636	1,800	Overheated smokehouse.
io l	1118 Fort st. west	None	1,000	Overflowing gasoline stove.
11	1118 Fort st. west	200	2,825	Hot ashes.
11	28 Montcalin st	5	2,500	Child playing with matches.
11	Wayne & Woodbridge sts.	None		Box pulled by mistake.
11	81 Pitcher st	50	50	Boys playing with fire.
iil	Jefferson ave. & Adair st.	None 15	1.000	Sparks from cupola.
ii	863 Fourth st 64 Cass st	None	1,000	Overflowing gasoline stove. Burning rubbish.
īī l	829 River st	None		Sparks from locomotive.
11	1671/2 Michigan ave	None	1	Smoke from lamp.
11	347 Mitchell ave	1,253	1,750	Hot ashes.
12	218 Brandon ave	10	500	Overflowing gasoline stove.
12 15	159 Woodbridge st	None		Flying sparks.
15	264 Orleans st	20 6	300 750	Defective chimney.
17	318 Lysander st	None	150	Overflowing gasoline stove.
17	925 Willis ave	17	300	Overflowing gasoline stove. Overflowing gasoline stove. Careless use of match.
18	425 Mullett st	424	1,600	Careless use of match.
18	425 Mullett st	29	300	Overflowing gasoline stove.
18	Wight st. & Mt. Elliott ave.	100	None	Spontaneous combustion.
18 18	299 Watson st	None	• • • • • • • • • • • • • • • • • • • •	Overflowing gasoline stove.
19	588 St. Antoine st	None None		Overflowing gasoline stove. Burning rubbish.
19	469 Chene st	None		Lightning.
19	1243 Michigan ave	19,845	32,000	Kerosene oil torch.
20	410 Thirteenth st	103	1,800	overflowing gasoline stove.
20	1038 Champlain st	230	1,500	Leaking gasoline stove.
20 20	258-60 Willis ave. east	862	1,900	Overflowing gasoline stove.
20	Michigan ave. & Shelby st. 850 Gratiot ave	None None		False call by telephone.
21	214 Cherry st	460	1,000	Fumigating store. Heat of boller.
21	364 Congress st. east	None		Careless use of matches.
21	406 Abbott st	None		Careless use of gasoline.
21	233 Champlain st	162	200	Careless use of match.
21	453 Alger ave	None	1,200	Overflowing gasoline stove. Overturned gasoline stove.
22 22	458 Alger ave	383	1,200	Overturned gasoline stove.
22	Foot of Campbell ave 260 Rowena st	None	500	Sparks from tug boat.
28	580 St. Antoine st	None		Burning rubbish. Boys with matches.
28	1297 Van Dyke ave	None		Overflowing gasoline stove.
23	82 Woodward ave	None	17,750	Defective gasoline lamp.
24	92-4 Woodward ave	364	17,750	Defective gasoline lamp. Electric wires.
25	174-6 Brewster st	181	2,650	Incendiary.
	278 Macomb st	None None		Overflowing gasoline stove.
25	QQ Wateon ut			
25	88 Watson st			Meat burning on stove.
25 25 25 25 25	88 Watson st	None 72	1,000	Overflowing gasoline stove. Flying sparks.

AUGUST-Continued.

Date	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
25 25 26 26 26 27 27 27 28 29 31 31	1030 Michigan ave. 22 Antietam st. Gratiot av. & Randolph st. 27 Jefferson ave 1 hird st. & Lafayette ave. 670 Warren ave 243 Junction ave 1271 Woodward ave 1271 Woodward ave 105 Michigan ave Helen & Kercheval ave 181 Thirty-second st 903 Eighteenth st	\$160 None None None 1,201 None None None Sone None None None None	\$2,000 4,150 1,500	Careless use of gasoline. Spontaneous combustion. Box pull. by unknown person. Electric wires. Could find no cause. Children play'g with matches. Overflowing gasoline stove. Children play, with matches. Smoke from furnace. Overflowing gasoline stove. Defective gas fixture. Burning bush. Overflowing gasoline stove. Burning rubblsh.
31	311 Hancock ave	1,931	11,800	Careless use of lamp.
	Total for August	\$31,157	\$142,025	

SEPTEMBER.

1	59 Monroe ave	None		Lamp exploded.
í	141 Second st	None		Overflowing gasoline stove.
î	712 Fourteenth ave	45	175	Children play'r with matches
î	700 River st	None		Children play'g with matches. Children play'g with matches
2	1483 Sixteenth st	365	6,000	Overflowing gasoline stove.
2	16 A st	None		Children play'g with matches.
3	Steam yacht near Belle	110110	••••	emater pay g with mittoness
	Isle bridge	125	None	Fire from furnace,
3	13 Livingstone ave	349	400	Overflowing gasoline stove.
4	109 Champlain st	None		Overflowing gasoline stove.
4	297 Welch ave	20	None	Children play'g with matches.
4	64 Woodbridge st	None		Leaking gas pipe.
4	583 Champlain st	None		Overflowing gasoline stove.
5	79 Shelby st	None		Flying sparks.
5	355 Trombley ave	115	800	Careless use of gasoline.
6	770 Dubois st	None		Careless use of match.
6	158 Twenty- second st	None		Overflowing gasoline stove.
6	129-31 Woodbridge st	None		Careless use of matches.
6	75 Humboldt ave	None		Lamp upset.
7	484 Brush st	85	1,500	Fumigating house.
7	84 Porter st	None		Careless use of gasoline.
7	223 Jefferson ave	9	500	Sparks from pipe.
7	1357 Sixteenth st	10	None	Defective furnace.
7	287 National ave	None		Rubbish burning in alley.
8	119 Fort st. east	50	400	Incendiary.
8	Orleans st. & Trombly av.	None		Auxiliary wires crossed.
8	1084-90 Michigan ave	179	500	Boys smoking eigarettes.
10	145 Eighteenth st	None		Careless use of matches.
10	Orleans st. & Trombly av.	None		Auxiliary wires crossed.
11	588 Medbury ave	227	600	Sparks from stove.
11	Mt. Elliott & Ferry aves	11	450	Flying sparks.
11	510-14 Franklin st	370	800	Flying sparks.
11	1182 John R. st	None		Burning sidewalk.
12	Summit ave. and W.R.R.	None		Burning rubbish.
12	336 Mullett st	45	1,200	Careless use of match.
12	Craft school house	20,000	None	Tinner's fire pot.
12	105 Farmer st	5	None	Flying sparks.
12	509 Sixteenth st	15	None	Children play g with matches.
12	121 Porter st	50	None	Overflowing gasoline stove.
12	Larned st. east R.R. bridge	None		Sparks from locomotive.
13	528-36 Riopelle st	3,701	4,600	Careless use of matches.
13	Gratiot ave. & Hastings st.	None		Could find no cause.
	<u> </u>	1	l	l

SEPTEMBER-Continued.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM
1				=
13	826 Humboldt ave	\$84	&1 000	Fluing enants
13	Grand Riv. & Griswold st	None	\$1,000	Flying sparks. Overheated cook stove.
14	Fort and Griswold sts	None		Spontaneous combustion.
14	1009 Champlain st	110	900	Careless use of matches.
14	469-7 Willis ave. east	224	2,850	Hot ashes.
14	Washington & Mich. aves	None		Could find no cause.
14	818 Beaubien st	43	700	Overflowing gasoline stove.
14 14	183 Macomb st 290 McDougall ave	None	800	Careless use of match. Overflowing gasoline stove.
14	467 Military ave	8	500	Children with matches.
14	134 Congress st. east	100	1,700	Leaking kerosene oil lamp.
15	656 Clinton ave	10	None	Children with matches.
16	187 National ave	226	1,100	Carelessness with matches.
16	191 Wight st	230	1 200	Fumigating house.
17	830 Woodward ave	83	24,500	Clothing too near stove.
17 17	1110 Vinewood ave	None	900	Carelessness with matches.
17	905 Piquette ave 80 High st	None 4	500	Overflowing gasoline stove. Flying sparks.
18	226-s High st. west	278	750	Children with matches.
18	549-51 Erskine st	931	1,125	Overflowing gasoline stove.
19	233-5-7 Brush st	None		Spontaneous combustion.
19	233-5-7 Brush st Milwauk. & D G.H. & M. R	1,060	20,700	Spontaneous combustion.
19	809 Fourth ave	None		Overflowing gasoline stove.
19	John R. and Alfred sts	None		False call by telephone.
19 19	Peninsular Stove Works	None 106	2,000	Sparks from cupola.
19	311-13 High st. east 14th ave. & Howard st	None	2,000	Fumigating hen house. Electric light wires.
20	Elmwood ave. Police stat.	None		Leaking gas pipe.
20	61 Monroe ave	None		Leaking gas pipe. Overflowing gasoline stove.
22	Field and Kercheval aves.	None		Overflowing tar kettle.
22	244 Howard st	None		Children with matches.
23 23	825-7 River st	430 427	800	Incendiary.
23	321 Trombly ave	1,311	1,250 4,385	Overflowing gasoline stove. Overflowing gasoline stove.
23	262 Columbia st. east	1,011	3,000	Overnowing gasonne stove.
23	162 St. Joseph st	50	None	Carelessness with matches.
23	209 Gratiot ave	None		Smoke from chimney.
23	702 St. Antoine st	None		Careless use of matches.
24	766 Chene st	339	1,700	Careless use of matches.
24 25	393 Baker st	None	1 500	Gasoline tank exploded.
25 25	195-7 Atwater st 29-31 Baltimore ave	1,900 314	1,500 1,200	Sparks from cupola. Overflowing gasoline stove.
26	61 Willis ave. east	745	4,500	Careless use of matches.
26	117 Edmund place	136	8,000	Careless use of matches.
26	1087 Twenty-seventh st	5,000	1,000	Spontaneous combustion.
27	Alley in rear of 33 Larned	l	1	
	st. east	None		Tar kettle overflowed.
27 27	37 Warren ave. east	None	900	Burning rubbish.
27	424 Dubois st	100	25,000	Flying sparks. Overheated dry kiln.
28	32 Abbott st	62	2,000	Careless use of match.
29	431-3 Gratiot ave	None	1	Auxiliary out of order.
29	177-9 High st east	45	6,200	Hot ashes.
30	70 Larned st. west	4,599	16,500	Overheated glue pot.
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	Total for September	\$44,833	\$154,0 85	
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OCTOBER.

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Date	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM
1	1038 Fourteenth ave	None		Smoke from stove.
1	240 Brady st	None		Careless use of match.
2 2	254 Woodward ave	None		Gasoline too near gas light.
2 2	564 Merrick ave	12	500	Overflowing gasoline stove.
8	671, Milwaukee ave	None	100	Hot ashes.
3	39 Washington ave 379 Michigan ave	None	1	Overflowing gasoline stove. Defective gasoline stove.
5	861 Boulevard west	30	1,200	Sparks from pipe.
5	101 Leland at	300	1,000	Sparks from chimney.
5	Junction ave. & G.T.R.R. Jefferson and Helen aves.	75	400	Sparks from locomotive.
5	Jefferson and Helen aves.	None		Smoke from chimney.
6	881 St. Antoine st	None		Overflowing gasoline stove.
6	339 Trumbull ave	80	8,500	Leaking gas pipe. Careless use of fire.
7	170-2 Gratiot ave	None 765	7,500	Clgarette smoker.
7	112 St. Antoine st	None	1,000	Spontaneous combustion.
8	174 Jefferson ave	291	6,800	Careless use of gasoline.
8	239 Gratiot ave	2,348	5,450	Sparks from stove.
9	455 Franklin st	21	15	Overflowing gasoline stove.
9	326 Twenty-sixth st	900	2,500	Overflowing gasoline stove.
9	525 Twelfth st	40	26	Sparks from pipe.
10 10	396 Fifth st	20	650	(areless use of match.
12	399 St. Antoine st Harper & D.G. H. & M.R.	None None	• • • • • • • • • • • • • • • • • • • •	Burning chimney. Explosion of gas.
12	State and Rowland sts	None		Could find no cause.
18	434 Twentieth st	None		Drunken man with lighted lamp.
14	98-100 Thirty-third st	58	100	Sparks from pipe.
15	46 Horton ave	5	1,500	Overheated gas stove.
16 16	55 Monroe ave	48	3,000	Lamp too near celling,
16	13-15-17 Jefferson ave	21,421	35,000	Hot ashes.
16	108 Elizabeth st west	151	1,500 1,200	Sparks from chimney. Sparks from locomotive.
16	326 Putnam ave	None	1,200	Smoke from furnace.
17	1425 Gratiot ave	10	None	Sparks from chimney.
18	1318 Sixteenth st	None		Overflowing gasoline stove.
18	358 Fort st.east	None		Wood too close to stove.
18	264 Chestnut st	587	4,550	Hot ashes.
18 19	246 Vinewood ave	None		Gasoline lamp exploded.
19	505 Commonwealth ave 465 Beaufalt ave	None	1,650	Careless use of matches. Flying sparks.
19	Lafayette ave. & Third st.	None		False call by telephone.
20	219 Twentieth st	None		Sparks from chimney.
20	117 Monroe ave	62	50	Sparks from chimney.
20	Russell and Leland sts	None		Mistaken telephone call.
20	47 Montcalm st west	None		Overflowing gasoline stove. Defective chimney.
22 22	16 A st	878 None	1,000	Overbooted pitch kettle
24	1430 Jefferson ave 227 Eighteenth st	None 6	500	Overheated pitch kettle. Defective chimney.
24	Fourth and Abbott sts	None	1	l Roy null by unknown nerson
25	1081 Piquette ave	68	300	Box pull, by unknown person Overheated smoke house.
25	Michigan & 14th aves	None		Box pull. by unknown person
25	308 Winder st	157	600	Lamp fell.
25	68-70 Catherine st	2,092	2,300	Spontaneous combustion.
26 26	714 Dubois st	10	600	Overheated stove.
26 27	21 Raynor st	None	200	Incendiary.
28	388 Antietam st	None		Burning rubbish. Oil stove exploded.
28	805 St Antoine st	10	800	Defective chimney.
29	591-8 St. Aubin ave	l		Man smoking.
29	855 Michigan ave	None		Disconnected gas pipe.
29	Farnsworth & Dequindre.	None		Sparks from locomotive.
80	93-5-7 Grand River ave	5,257	16,000	Electric light wire.
30	56 Illinois st	None		Smoke from stove.
30	Out of city			

OCTOBER-Continued.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM
81 21 81 81 81	Alley west St. Antoine, north Winder sts	None 200 20 None 35	45,000 13,000 1,800	Wires on telegraph pole. Overheated gas stove. Overflowing gas stove. Bonfire. Boys playing with lamp.
	Total for October	\$37,289	\$ 161,540	

NOVEMBER.

	· · · · · · · · · · · · · · · · · · ·			
2	82 Grand River ave	None	l	Overflowing gasoline stove.
8	112 Hammond ave	None		Flying sparks.
3	1522 Jefferson ave	400	None	Incendiary.
4	433 Chene st	None		Overflowing gasoline stove.
4	410 Mack ave	None		Smoke from chimney.
4	1200 Russell st	112	1,000	Oil stove exploded.
4	484 Grand River ave	None		Defective soot drawer.
5	Foot of Eighteenth st	None		Sparks from locomotive.
5	91 Charlotte ave	57	8,100	Woman's clothing caught fire
			1	from an open fireplace.
5	145 Arndt st	45	100	Sparks from chimney.
6	15 Grand River ave	None		Flash light.
6	Jefferson av. & Shelby st.	None		Bonfire.
6	State and Rowland sts	None		Bonfire.
6	Gratiot ave. & Farmer st.	None		Bonfire.
6	Rowland & Grand Riv. av.	None		Bonfire.
6	Jefferson av. & Shelby st.	None		Box pull. by unknown person.
7	Moran st. & Canfield ave.	None		Bonfire.
7	Clark ave. & M.C.R.R	None		Spontaneous combustion.
7	Beaubien and Clinton sts.	None		Bonfire.
7	Beaubien & Macomb sts .	None		Bonfire.
7	20 Champlain st	None		Rubbish burning in yard.
8	160 Hastings st	12	500	Careless use of gasoline.
8	1554 Michigan ave	2	None	Careless use of match.
8	704 Wabash ave	124	500	Lamp knocked over.
9	323 Larned st. east	None		Children play, with matches.
9	Western High School	None	<i></i>	Spontaneous combustion.
10	186 Macomb st	121	1,000	Careless use of match.
10	88 Wilkins st	None		Overflowing gasoline stove.
10	164 Second st	270	2,500	Hot ashes.
10	68 Clifford st	8	1,000	Burning soot.
11	280 Sullivan ave	35	1,550	Defective chimney.
11	479 Catherine st	None	'	Smoke from stove.
11	9 Center st	22	1,665	Defective chimney.
12	873 McDougall ave	71	550	Careless use of match.
12	1311 Mack ave	74	1,300	Careless use of match.
13	Beaubien & Columbia sts.	None		Smoke from sawing machine.
13	Clifford st	None		Oil heater collapsed.
14	Det. Bridge & Iron Wks	18,694	97,500	Sparks from furnace.
14	Barstow school	None		Hot furnace.
14	366 Linden st	10	600	Overflowing gasoline stove.
14	74 Farrar st	77	1,600	Lamp exploded.
15	156-8 Thirty-second st	40	50	Hot ashes.
15	586 Watson st	None		Cigarette smoker.
15	38 Mack ave	. 38	500	Defective chimney.
15	102 Hale st	None	• • • • • • • •	Burning chimney.
15	511 Third st	None		Smoke from stove.
15	283 Larned st east	33	1,200	Defective fireplace.
16	32 National ave	10	None	Careless use of matches.
17	147 Willis ave	620	1,200	('areless use of matches.
		l i		

NOVEMBER-Continued.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM.
19 19 20 22 22 25 26 27 27 28 29 29 29 30 30 30 30	181 Morton st 1337 Twenty- fifth st Jefferson av & Brush st 334 Pallister ave St Antolong & Atwater sts. McDougall ave & Guoin Alley n Mich w 4th st 50 Winder st 211 King ave 319 Sheldon ave 325 Rlopelle st 119 Harrison ave 47 Irving place 49 Benton st 568 Baker st 757 Twenty-thrd st 68 Harrison ave 40 Berlin st Bates and Farmer sts	\$85 None 749 None None None 75 774 37 25 None None 92 275 76 49 None None	\$850 1,000 1,500 1,500 775 None 500 1,000 1,000 500	Child with matches. Careless use of matches. Crossed electric wires. Coals from stove. Sparks from locomotive. Crossed electric wires. Electric wires crossed. Careless use of match. Crossed wires. Overheated gas stove. Children with matches. Burning chimney. Burning chimney. Defective chimney. Lamp exploded. Lamp knocked over. Overflowing gasoline stove. Overflowing gasoline stove. Spontameous combustion.
30	Fort and Beaubien sts Total for November	None \$28,146	\$133,040	Auxiliary out of order.

DECEMBER.

1				85.6. M 6
1	42 Bagley ave	None	· · · · · · · · ·	Defective furnace.
1	Majestic building	Noue		Escaping steam.
4	138 Gratiot ave	141	1,700	Crossed electric wires.
4	593 Fourteenth ave	None	. .	Burning chimney.
5	Boulevard and Ash st	None		Lamp knocked over.
5	1070 Fort st. west	30	1,500	Careless use of match.
7	260 Macomb st	None		Hot ashes.
7	99 Humboldt ave	5	None	Bed too near stove
7	725 Jefferson ave	60	20,000	Careless use of match.
8	Fourth and Abbott sts	None		Box pull, by unknown person.
8	141 Woodward ave	25	40,000	Defective furnace.
8	109 Grand River ave	70	None	Carcless use of gasoline,
8	Boulevard n. Gr. River av.	290	250	Sparks from pipe.
8	219 Michigan ave	9	4,000	Pan of grease overheated.
8	331 Michigan ave	336	6,250	Curtain too near gas light.
8	67 Monroe ave	5,817	14,498	Electric light wire.
8	17-19 Gratiot ave	None		Electric light.
9	1668 70 Rivard st	250	None	Careless use of matches.
-	67 Grand River ave	None		Burning soot.
9	1064 Wabash ave	5	None	Hot ashes.
9	558 Meldrum ave	25	None	Hot ashes.
9	29 Champlain st	None		Burning rubbish.
10	975-79 St. Aubin ave	1.588	3,950	Defective chimney.
10	975-79 St. Aubin ave	None		Sparks from previous fire.
10	Ferry av & O.G.H.& M.R.	5	100	Sparks from locomotive,
10	439 McKinstry ave	72	1,700	Oil heater collapsed.
11	23 Hunt st	None		Overheated smokehouse.
11	Out of city Gratiot road.			
11	129 Langley ave	10	1,000	¹ Overheated ash pit.
11	540 Michigan ave	None		Careless use of matches.
11	1328 Fort st west	25	None	Careless use of matches.
12	309 Second ave	257	1,500	Incendiary.
12	Mich and Hubbard aves	None		Leaking gas pipe.
12	Boulevard n. Gr. River av	None		Burning rubbish.
12	686 River st	None		Burning chimney.
12	1141-7 Michigan ave	413	5,000	Hot ashes.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,	

DECEMBER-CONTINUED.

Date.	LOCATION.	Loss.	Insur'ce.	CAUSE OF FIRE OR ALARM
13	829-33 Gratiot ave	\$469	4,500	Overheated stove.
18	1249 Fourteenth ave	None		Leaking gas pipe.
13	185 Catherine st	None		Careless use of fire.
13	21 Plauette ave	None		Could find no cause.
13	66 Fourteenth ave	290	600	Careless use of match.
13	Clark ave. & M.C.K.K	None		Sparks from locomotive.
13	379 Brush st	98	800	Defective chimney.
14	677 Frederick st	None		Overheated stove.
15	412 Crane ave	None		Lamp exploded.
15	60 Eighteenth st	None		Defective heating apparatus.
16	325 Macomb st	None		Careless use of match.
16	886 River st	100	100	Men smoking.
16	703 Michigan ave	240	2,450	Thieves with matches.
17	950 Meldrum ave	131	2,175	Oil heater collapsed.
17	521 Jefferson ave	81	15,000	Defective fireplace.
17	Michigan Car & Foundry	None		Owenhanted to a best le
	Co., Clark ave	None	· · · · · · · · · · · · ·	Overheated tar kettle.
17	1008 Michigan ave	None		Burning rubbish
17	652 Monroe ave	None None		Overflowing gasoline stove.
18	Gratiot ave. & Randolph.	None		Hot ashes.
18 19	Griswold & Congress sts	None		Box pulled by accident. Auxiliary wires crossed.
19	137 Woodbridge st	None		Smoke from core oven.
21	229 Columbia st. east	8	1,000	Careless use of candle.
21	148 Henry st	59	35,000	Overheated ash pit
22	1197 Fourth ave	919	1,700	Boys with matches.
22	591 Chene st	198	1,000	Careless use of matches.
22	St. Antoine & Benton sts.	None	1,000	Smoke from chimney.
23	279 Hancock ave. east	170	1,700	Heat of furnace.
23	1129 Concord ave	146	600	Lamp upset.
22	51 Shelby st	None		Leaking gas pipe.
24	129 Jefferson ave	19	10,000	Careless use of match.
24	534 Superior st	270	600	Boy with match.
24	Grace Hospital	None		Smoke from stove.
24	550 Gratiot ave	None		Overheated oil stove.
25	449 Michigan ave	15	None	Flying sparks.
25	142 Division st	None		Burning chimney.
25	307 Franklin st	3	None	Defective stovepipe.
25	110 Baker st	None	None	Burning chimney.
25	36 Bristol pl	100	None	Candle on Christmas tree.
25	30 Lamble pl	22	500	Careless use of match.
25	Monroe ave. & Farmer st.	None	550	Box set off by accident
26	676 Hancock ave	None		Sparks from pipe.
26	14 Farmer st	None	• • • • • • • • • • • • • • • • • • • •	Lamp upset. Gasoline lamp overflowed.
26 26		None 9	200	
26	398 Michigan ave 741 Fort st. west	238	1,450	Overflowing gasoline stove. Sparks from chimney.
27	386 High st. east	8,541	26,000	Careless use of matches.
28	50 Congress st. east	None	20,000	Sparks from pipe.
28	73 Melbourne ave	245	2,000	Overheated furnace.
29	300 Michigan ave	None	2,000	Oil stove collapsed.
81	327 Franklin st	None		Careless use of matches.
31	Atwater st	None		Boy with matches.
31	State and Rowland sts	None		Box pull. by unknown person
	Total for December	\$16,884	\$209,473	

CAUSES OF FIRES AND ALARMS.

N	īo.	1	No.
Auxiliary out of order	5	Heat from boiler	6
Auxiliary wires crossed	6	Hot ashes	30
Boxes accidentally set off	8	Hot metal	2
Box pulled by drunken man	1	Incendiary	17
Boxes pulled by unknown persons,	19	Kettle of varnish, tar, grease, etc.	15
Boys with matches	11	Lamp explosions	25
Boys playing with fire	4	Lamp upset	18
Bonfire	11	Leaking gaspipe	21
Burglars with matches	1	Leaking gasoline stoves	8
Burning chimney	36	Lightning	9
Burning rubbish, grass, sidewalk,	••	Meat burning on stove	1
etc	34	Oil stoves collapsed	7
Bedding too close to stove	2	Oil stove upset	i
Burning soot	4	Out of city	8
Careless use of lamp, candle, etc.	12	Old fire broke out	6
Carboy of acid broken	1	Overflowing gasoline stoves	96
Careless use of gasoline	18	Overheated chimney	
Careless use of matches	97	Overheated dry kiln	1
Careless use of fire	3	Overheated fireplace	8
Children playing with fire	7	Overheated furnaces	9
		Overheated oil stoves	12
Clothing to pear store	38	Overheated smokestacks	2
Clothing too near stove	3		
Could find no cause	5	Overheated glue pots	_
Defective soot drawer	1	Overheated oil tanks	
Defective chimneys	22	Overheated stoves	
Defective gasoline lamps, stoves,		Overheated gas stoves	
etc	4	Overheated steam plpe	_
Defective oil heater	1	Overheated stovepipes	_
Defective crude oil burner	1	Plasterer's salamander	-
Defective grates	5	Plumber's gasoline fire pot	
Defective hot air furnaces	1	Sparks from chimney	20
Defective stovepipes	4	Smoke from furnaces, stoves,	
Defective oven	1	grates, etc	11
Electric flatiron	1	Sparks from emery wheel	
Electric soldering iron	1	Sparks from cigars, cigarettes,	
Electric light wires	13	pipes, etc	
Electric wires crossed	13	Sparks from cupola	8
Escaping steam	3	Smoke from chimneys, stoves,	
Fumigating houses	4	furnaces, etc	
False call by telephone	4	Sparks from tug boat	
Flying sparks	56	Sparks from locomotives	
Firecrackers, fireworks, etc	17	Spontaneous combustion	
Fires made to smoke meat	11	Stove too near woodwork	
Fire balloon fell on roof	1	Signal light	
Friction of machinery	3	Thawing water pipe	. 9
Flash light	1	Tinner's fire-pot	1
Gas jet against wood-work, cur		Wet lime	1
tain, etc	6	Wood too near stove	1
			_



RECAPITULATION FOR 1900.

MONTHS.	No of Fires and Alarms.	No. of Fires.	No. of Alarms.	Fires at Day.	Fires at Night.	Day Alarms.	Night Alarms.	Box Alarms.	Auxiliary Alarms.	Telephone Alarms.	Still.
January February March April May June July August September October November December	82 80 68 71 78 80 123 81 94 69 69	71 60 64 71 74	8 9 8 7 7 6 6 6 8 8 6	44 47	38 34 22 27 27 43 25		5 6 5 6 1 4 1 6 4 4	49 46 46	5 1 1 1 4 4 2 3 1	16 17 12 13 12 15 19 7 11 8 4	13 9 11 8 12
Total	 984	 899	 85	 516	383	40	45	 674	 25	 148	 137

SHOWING THE MANNER IN WHICH FIRES WERE EXTINGUISHED DURING THE YEAR 1900.

MONTHS.	Before arrival of Department.	By Hand Extinguishers.	By Chemical Engines.	By Hand and Chemical Engines.	By Steam Engines.	By Steam and Chemical Engines.	By Pails of Water, Etc.	Total.
January February March April May June July August September October November December	20 17 16 14 20 22 52 25 18 17 15 21	9 16 8 11 12 15 10 17 13 11 23	6 4 5 8 6 7 6 6 10 3 10 4	2632233	24 19 22 21 27 18 22 19 29 14 13 25	2 1 4 6 7 7 7 3 2	11 8 6 8 5 8 13 8 7 5 9 6	74 71 60 64 71 74 117 75 88 61 61 83
Total	 257	156	75	25	 253	39	94	 899

CLASSIFICATION OF BUILDINGS, ETC.

January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
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VALUATION, LOSSES AND INSURANCE FOR 1900.

MONTHS.	Valuation.	Loss.	Insurance.	Fires.	Alarms	Total Fires and Alarms
January	\$392.24 0	\$57,409	\$253,890	74	8	82
February	1,348,760	200,370	490,473	71	9	80
March	448,090	58,119	294,670	60	8	68
April	146,375	8,196	97,491	64	7	71
May	610,375	12,362	498,077	71	7	78
June	500,615	17.671	336,000	74	6	80
July	509,590	79,307	279,675	117	6	123
August	226,900	31,157	142,025	75	6	81
September	316,215	4+,833	154,085	88	6	94
October	256,235	37,239	161,540	61	8	69
November	201,175	23,146	133,040	61	8	69
December	327,250	16,884	209,473	83	6	89
Total	\$5,283,820	\$ 586,693	\$3,050,239	899	85	984

YEARLY RECAPITULATION FOR TWENTY YEARS,

YEAR.	No.of Fires and Alarms.	Total Loss.	Total Insurance.	Valuation.
1881	230	150,011	683,767	1,321,061
1882	226	290,134	667,130	1,542,515
1883	288	236,407	1.519.572	2,506,870
1884	338	306,3 02	1,545,025	2,840,865
1885	327	273,856	1,255,028	2,872,700
1886	832	1,117,997	1,962,420	4,450,740
1887	406	365,370	2,003,750	3,188,205
1888	453	277,980	2 073,758	3,675,895
1889	517	237,246	1,807,343	3,000,285
1890	536	606,521	3,776,380	6,130,735
1891	590	630,976	3,121,272	5,342,905
1892	753	550,532	2,995,452	4,643,402
1893	828	1,075,092	3,402,626	5,361,412
1894	778	613,773	2 859,840	4,174,750
1895	981	483,637	2,411,715	3,689,425
1896	761	426,286	2,901,715	4,902,540
1897	904	801,003	3,245,393	5,344,080
1898	948	522,819	4,105,260	6,275,530
1899	1190	598,364	3,695,098	5,574,490
1900	984	586,693	3,050,239	5,283,820
Total	12,370,	\$10,150,999°	\$49,082,784	\$82,122,225

RUNS MADE AND MILES TRAVELED BY EACH COMPANY IN 1900.

NO. OF COMPANY.	Runs Made.	Hours in Service.	Miles Traveled.
Engine No 1	177	441/4	195%
Engine No. 2	227	501/2	32914
Engine No. 3	256	661/2	323 14
Engine No. 4	107	35%	190%
Engine No. 5	137	371/4	248 3
Engine No. 6	246	49%	354 14
Engine No. 7	55	111/2	80¾
Engine No. 8	211	5414	31634
Engine No. 9	145	3934	2101
Engine No. 10	155	39%	2881/4
Engine No. 11	139	2614	2333%
Engine No. 12	111	2134	22114
Engine No. 13	′ 79	2234	148
Engine No. 14	114	423/4	212}}
Engine No. 15	79	261/2	161 👯
Engine No. 16	185	2334	252
Engine No. 17	75	7,7	191
Engine No. 18	97	534	25314
Engine No. 19	117	23	21132
Engine No. 20	15	3	301
Engine No 21	67	81/3	152 🔏
Engine No. 22	54	1913	1261
Engine No. 23	59	4%	1131
Engine No. 24	26	8	881
Hose No. 1	135	31%	103 %
Hose No. 2	153	43,5	17234
Chemical No. 1	116	19%	17632
Ladder No. 1	156	66	1431
Ladder No. 2	174	93	2263
Ladder No. 3	133	56	1555
Ladder No. 4	117	72,1	22636
Ladder No. 5	163	81	240
Ladder No. 6	79	4016	1191
Ladder No. 7	76	281	1823
Ladder No. 8	52	30	106
Ladder No. 9	73	3314	1293
Ladder No. 10	44	10%	1023
Water Tower No. 1	51	61%	6412
Total	4,525	1,3171/	7.104

SHOWING NUMBER OF ALARMS FOR EACH HOUR OF THE DAY DURING THE YEAI
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ALARMS
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Total	December	November	October	September	August	July	Jnne	Мау	April	March	February	January	1900.	
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611	51	#	42	\$	8	88	8	49	*	42	8;	8	Total	Р. М.

CASUALITIES.

Four persons not members of the Department were fatally injured at fires during the past year.

April 10th, at 231 Concord avenue, Catherine Rentz was cleaning silk waists with gasoline, a small stove in the room set fire to the vapor from the gasoline, her clothing was ignited. She died at St. Mary's Hospital on the 19th from the effect of her burns.

June 21st, at 274 Elizabeth street east, two children, one aged five years and the other aged two and a half years, were in a room with matches; they set the bed on fire. The older one got out safely, the younger one, Milton Jacobs, crawled under the bed and was burned to death.

October 16th, at a fire in No. 15 Jefferson avenue, Alonzo Ireson, aged 40 years, was killed by jumping from a third story window. Ernest Lizzotte was found dead after the fire was under control. He died from burns and suffocation.

November 5th, at 91 Charlotte avenue, Mrs. Lafayette Harter, an elderly lady, was building a fire in an open fireplace, her clothing caught fire. She died the same day from the effect of her burns.

DEATHS IN THE DEPARTMENT.

TIMOTHY KEOHANE, ladderman of Ladder Company No. 8, killed by falling smokestack at the Detroit Spring Works fire February 25th, 1900.

Buried by the Department February 28, 1900.

CHARLES Springs, watchman of Engine Company No. 3, died at his home May 12, 1900, from heart failure.

JOHN H. McNamara, watchman of Headquarters, died at his home October 20, 1900, from stricture of intestines.

AUGUST REGENTIN, lieutenant Engine Company No. 11, killed by falling walls at fire October 25, 1900.

Buried by the Department October 28, 1900.

Deliance Haven, captain Engine Company No. 12, died at his home December 31, 1900, of heart failure Buried by the Department January 2, 1901.

Accidents to Members of Department in 1900.

January 1—William McGraw, captain of Engine Co. No. 10, injured while responding to alarm of fire, thrown from seat. Off duty 212 days.

January 18—Wm. Burgess, pipeman of Engine Co. No. 1, injured his back at fire, box 61. Off duty 3½ days.

January 18—F. Gaffney, pipeman Engine Co. No. 4, injured at fire, box 61. Off duty 4 days

January 18—J. McKernan, engineer of Engine Co. No. 19, injured while hitching up for alarm of fire by horse stepping on his foot. Off duty 2 days.

January 20—C. W. Becht, lieutenant of Ladder Co. No. 1, injured his eye at alarm of fire. Off duty 4 days.

January 20—R. Gitre, driver of Hose Wagon Co. No. 3, while responding to alarm of fire the wagon upset. Off duty $9\frac{1}{2}$ days.

February 4—J. Hockaday, pipeman Engine Co. 1, injured while responding to alarm of fire. Off duty 21 days.

February 15—J. Reves, pipeman Engine Co. No. 6, injured while responding to alarm of fire by a collision with street car. Off duty 90 days.

February 15—M. E. Plunkett, pipeman Engine Co. No. 6, injured while responding to alarm of fire by a collision with street car. Off duty 126 days.

February 15—H. J. Little, assistant engineer of Engine Co. No. 10, injured by being thrown from engine while responding to alarm of fire, box 432. Off duty 7 days.

March 7—Wm. Courtney, captain of Engine Co. No. 1, injured at fire, box 61, by glass Off duty 2½ days.

March 9—A. H. Sigman, supply driver of Chemical Co. No. 1, injured in barn. Off duty 5 days.

March 14—W. J. Daniel, ladderman of Ladder Co. No. 4, sprained his ankle while getting out of wagon. Off duty 7 days.

March 22—S. P. Atwood, engineer of Engine Co. No. 2, injured while returning from alarm of fire. Off duty 2 days.

March 22—C. L. Chase, lieutenant of Hose Co. No. 2, injured by being thrown from wagon while responding to alarm of fire. Off duty 60 days.

March 22—Wm. L. Chapman, engineer of Engine Co. No. 17, injured in house while making connection to heater. Off duty 18½ days.

April 9—F. C. Roberts, lieutenant of Engine Co. No. 23, injured by horse striking him. Off duty 9½ days.

April 10—G. Virgin, pipeman of Engine Co. No. 23, injured while hitching up. Off duty 2½ days.

April 25—B. F. McGann, driver of Ladder Co. No. 4, injured by horse striking him. Off duty 2 days.

May 18—P. Cassidy, pipeman of Engine Co. No. 2, injured his back. Off duty 10 days.

May 27—H. T. Moiles, captain Ladder Co. No. 7. Off duty on account of old injuries received to his right hand. Still off duty.

June 21—J. L. Clements, lieutenant of Ladder Co. No. 5, injured by being thrown from truck while responding to alarm of fire. Off duty 10 days.

July 4—J. J. Frank, pipeman of Engine Co. No. 10, injured while sliding down the pole while responding to alarm of fire. Off duty 12 days.

July 10-E M. Greiner, ladderman of Ladder Co. No. 6, injured at fire, box 527. Off duty 21 days.

July 27—J. J. Bourke, pipeman of Hose Co. No. 2, injured his back by lifting. Off duty 14 days

August 10—J. E. Theut, pipeman of Engine Co. No. 9. Off duty on account old injuries, 10 days.

August 27—H. G Conklin, captain Engine Co. No. 13, injured at fire, box 376. Off duty 65 days.

August 31—F. Schreckenberg, ladderman of Ladder Co. No. 8, injured while responding to alarm of fire, box 647. Off duty 14 days

September 25—E. J. Murphy, lieutenant Engine Co. No. 19, injured while responding to alarm of fire, box 26. Off duty 30 days.

September 25—J. McKernan, engineer of Engine Co. No. 19, injured while responding to alarm of fire, box 26. Off duty yet.

October 25—G. D. Rohde, pipeman Engine Co. No. 2, injured at fire, box 47. Off duty 15½ days.

October 25—T. Gilleran, pipeman Engine Co. No. 2, injured at fire, box 47. Off duty 40 days.

October 25—U. L. Paquette, pipeman Engine Co. No. 2, injured at fire, box 47. Off duty 15 days.

October 25—S. McIntyre, sub-pipeman Engine Co, No. 2, injured at fire, box 47. Off duty 17 days.

October 25—E. C. Langfield, pipeman Engine Co. No. 11, injured at fire, box 47. Off duty till now.

October 30—C. W. Ciliax, pipeman Engine Co. No. 23. Off duty on account of injuries 19 days.

November 14—W. L. Osborne, ladderman of Ladder Co. No. 4, injured at fire, box 638. Off duty still.

November 18—F. Schreckenberg, ladderman of Ladder Co. No. 9. Off duty on account of old injuries received. Off duty still.

OF

THE FIRE MARSHAL.

Office of Fire Marshal, Detroit, January 1, 1901.

To the Honorable the Fire Commission:

GENTLEMEN — I have the honor to submit to your honorable body the following report of the transactions of this office for year ending December 31, 1900.

The aggregate cost of the building operations of the city was \$139,720 over that of preceding year.

Permits were issued during the several months for new buildings, additions, alterations, etc, as follows:

MONTHS.	Number of New Buildings.	Estimated Cost of New Buildings.	Number of Additions.	Estimated Cost of Additions.	Total Estimated Cost.
January	85	\$154,600	10	\$37,000	\$191,600
February	56	75,600	17	18,300	93,900
March	75	131,000	36	41,800	172,800
April	129	280,300	45	27,200	307.500
May	161	369,300	56	53,700	423,000
June	115	325,400	36	31,300	356,700
July	143	225,500	49	92,800	318,300
August	146	509,100	33	85,000	594,100
September	144	426,400	40	22,600	449,000
October	186	283,000	56	120,200	403,200
November	125	222,200	25	28,000	250,200
December	175	552,300	21	21,700	574,000
Fuel sheds		8,100			8,100
Total	1,540	\$3,562,800	424	\$579,600	\$4,142,400

The character of the new buildings was as follows:

Dwellings	Fire engine houses 2
Barns 92	Boat houses 2
Stores 64	Bottling works 1
Storehouses 24	Boiler house 1
Manufactories 21	Laboratory 1
Sheltering sheds 17	Planing mill 1
Shops 18	Bank 1
Offices	Postoffice 1
School houses	5 Hall 1
Churches 5	Stock house 1
Electric storehouses 2	Police station
Telephone exchanges	Elks building 1
Total	

Of the above 205 were within the fire limits.

The permits for new buildings covered 297, which were of brick, stone and steel construction, and 1243 of wood.

Of the alterations and additions 99 were of brick, stone and steel construction and 325 of wood.

Complete inspections were made in all cases of construction as regards stability, and to prevent fires, as well as to follow the requirements of municipal laws.

The storage of easily inflammable goods, always a source of danger, was watched with care.

It is a pleasure to say that owners, builders and architects are to be commended in following the rules laid down for their guidance in all the building operations.

I desire to commend the work of the Building Inspection Bureau of the Department. The annual survey was very complete, and the reports received by the Fire Marshal enabled this office to do good work in at least keeping the fire risk at a minimum.

A slight increase was made in the fire limits during the latter part of the year by the Common Council. There is still room for improvement in this direction, however. During the year the Department responded to 899 alarms for fire of more or less magnitude, and to 85 alarms for which no fires occurred.

As required by law these alarms were made the subject of personal investigation by this office and complete reports were made in each case. Information acquired in these investigations proved of great value, which was properly utilized to prevent future disasters.

All complaints made by citizens were promptly examined into and remedies were supplied without delay. Complaints of this character numbered all told 225. The time taken up in these investigations was productive of much valuable information.

Very respectfully,

WM. H. BAXTER,

Fire Marshal.

OF

SUPERINTENDENT OF TELEGRAPH.

OFFICE OF SUPT. FIRE ALARM TELEGRAPH, DETROIT, June 30, 1901.

To the Honorable the Fire Commission:

GENTLEMEN—I have the honor to submit herewith a report of the extensions, alterations and repairs to the Fire Alarm Telegraph for the fiscal year ending June 30th, 1901.

During the year thirteen new street signal boxes have been added to the system and located as follows:

- 169-Canfield avenue and Rivard street.
- 194—Oakland avenue and Marston street.
- 257—Cass and Ferry avenues.
- 329—Chene and Champlain streets.
- 519—Franklin and Walker streets.
- 584—Helen and Lambert avenues.
- 619-Twenty-fourth and Howard streets.
- 653—Warren and Tillman avenues.
- 657—Twenty-seventh street and Hancock avenue.
- 713—Jefferson and Baldwin avenues.
- 718—Jefferson and McClellan avenues.
- 729—Engine House No. 26, Crane and Brinkert aves.
- 837—Dragoon and Regular avenues.

There are now in service 425 public and 11 private boxes, total 436 signal boxes.

The necessary telegraph instruments, consisting of two gongs, register and telephone set, have been placed in each of the new houses erected during the year, viz: Engine Houses Nos. 25 and 26. The above houses have also been wired for electric light.

Telephone sets have been connected in the residences of Edward Curren and Frank Kenny.

New telephone jacks the same as ones used in the signal boxes have been placed at all the Fire Boat hydrants, thereby having a uniform jack for both signal box and hydrant.

Circuits Nos. 3, 5 and 7 have been thoroughly overhauled and the old rusty iron wire replaced with No. 10 copper wire insulated.

I would recommend that twelve inch mechanical gong be placed in all the engine and ladder houses in the Department and that the small bells now in use be taken out, by so doing it would relieve the circuits which are very much overloaded at the present time, owing 'to the necessity of placing from three to four bells in each house.

In the maintenance of lines, instruments, etc., the usual amount of work moving poles, attending house movers, rebuilding lines, etc., has been performed.

The fire alarm underground system comprises the following:

78,270 feet of cable.

13,035 feet of single wire.

30,400 feet of wooden conduit.

120,519 feet of iron pipe conduit.

202 brick manholes.

14 wooden manholes.

73 iron box posts.

There are in service 225 miles of copper conductor underground, 400 miles of aerial lines, 1880 poles, 2,926 poles in use belonging to other companies.

The telephone system comprises sixty-four telephone sets, 140 miles of aerial lines, 27,190 feet of standard underground cable.

Very respectfully submitted,

W. J. GARDINER,
Superintendent Telegraph.

OF

THE DEPARTMENT SURGEON.

DETROIT, July 1st, 1901.

To the Honorable the Fire Commission:

DEAR SIRS—I herewith submit my annual report for the year ending June 30th, 1901. During the past year the health of the Department has been excellent.

Two deaths have occurred during the year.

I have been consulted on 400 different occasions for injuries or sickness.

Respectfully yours,

BENJ. P. BRODIE,

Department Surgeon.

OF

THE PURCHASER.

DETROIT, July 1, 1901.

To the Honorable the Fire Commission:

Gentlemen—I have the honor to submit herewith my report for fiscal year ending June 30th, 1901.

Respectfully,

GEORGE W. STOCKWELL,

Purchaser.

OATS.

On hand June 30, 1900	1,882 bushe	els.
Purchased July 1, 1900 to June 30, 1901		
•	22,276 "	
Less on hand June 30, 1901	•	
Consumed July 1, 1900 to June 30, 1901	13,458 "	
HAY.		
On hand June 30, 1900	218,150 1	bs.
Purchased July 1, 1900 to June 30, 1901		"
	000 054	44
Less on hand June 30, 1901	000,211	u
Less on nand June 30, 1901	192,400	••
Consumed July 1, 1900 to June 30, 1901	667,874	"
HARD COAL.		
On hand June 30, 1900	209 to	ns.
Purchased July 1, 1900 to June 30, 1901		"
	1,588	66
Less on hand June 30, 1901	223	46
Consumed July 1, 1900 to June 30, 1901	1,365	66
SOFT COAL.		
On hand June 30, 1900	140 to	ns.
Purchased July 1, 1900 to June 30, 1901		
	 888 4	
Less on hand June 30, 1901	000	
Dess on hand s due so, lovi		
Consumed July 1, 1900 to June 30, 1901	759 '	

HOSE ON HAND JUNE 30, 1901.

	İ	COTTO	N, RUBBE	R LINED.	CHEMICAL RUBBER.
WHE	RE LOCATED.	Size a	Size and Number of Feet.		
		2½ inch.	8 inch.	3½ inch.	1 inch.
	ine Co	1,000	1,200		100
4	·	1,000	1,100		100
u	·	2,000	100		800
4 .	·	.2,000			100
5 4	'	2,000	•••••		100
0	•	2,000			250
7 '	'	2,000			50
8 4	•	2,000			250
9 '	•	2,000			250
10 '	·	2,000		.	250
11 '	٠	2,000			100
12	·	2,000			50
13	•	2,000			50
14 '	•	2,000			50
15 '	•	2,000			50
16 '	•	1,000	2,000	2,180	
17 4	•	2,000		2,100	50
18	•	2,000			50
	•	2,000			100
	•	2,000			50
		2,000			50
22		2,000		••••	50
28	•	2,000			50
		2,000			50
		600	2,000	2.180	
	4	2,000			50
No. 1 Hose	••••	•	2,000		300
2 '		•••••			
_	• • • • • • • • • • • • • • • • • • • •	•••••	3,000		800
0	••• ••••	•••••	2 000		250
	nical Co				250
8	··· ··· ··· · · · · · · · · · · · · ·	••••			250
10	********	••••	••••	****	250
	er Tower		4.000	100	••••
	partment	1,650	4,600		
extra Che	mical Engines				500
Total		49,250	18,000	4,460	4,650

OF

SUPERINTENDENT OF APPARATUS.

DETROIT, July 1st, 1901.

To the Honorable the Fire Commission:

GENTLEMEN—I submit herewith my report for the fiscal year ending June 30th, 1901, showing the additions, alterations and repairs to the apparatus under my charge during that period, and also its condition at the date of this report.

NEW APPARATUS.

The most notable addition to the effective working apparatus was the new fire boat James Battle which went into commission January 10th, 1901, after a thorough trial and test of its pumping machinery. In my last report I had the honor to present a detailed description of this boat, as shown by the drawings and the work already done. The pumps of the new boat have proved to be all and more than was claimed for them. The boat is located at the Michigan Central dock in place of the Detroiter, now stationed at the foot of McDougall avenue.

The latter was thoroughly overhauled, new main steam pipe being put in and a new lining placed in the cylinder of the Worthington steam pump. At the same time the hull of the boat was carefully examined and found to be badly rotted and beyond repair. A new hull should be provided at once so that this fine piece of fire fighting machinery may be ready to do full duty in case of emergency. With the two boats the department is in condition to cope with almost any fire along the river front that can be reached by them.

A new first size Manning engine was received November 3d, 1900, and went into commission at No. 10 Engine House January 15th, 1901. Dimensions of boiler 38 x 66 inches, steam cylinder 9 x 9, pumps 5½, stroke 9 inches, weight 5 tons. The steaming qualities of this machine are superior to any engine in use by the Department.

A new extra size Manning engine was received November 13th, 1900, and placed in No. 19 Engine House the same day. The dimensions are the same as the one last described. These two engines are great additions to our fire fighting force.

A new hose wagon built by Sievers & Erdman, was placed in commission at No. 7 Engine House October 16th, 1900.

An extra large size hose wagon was built by the same firm and placed in No. 2 House November 3d, 1900, and equipped with 1,500 feet of 3-inch hose, together with a chemical tank. This wagon is drawn by three horses.

Another notable addition is the new coal wagon, drawn by three horses and holding 6,800 pounds of coal in bags, the coal being broken in small pieces ready for use. This wagon was placed in the water tower house April 19th, 1901, and will prove of great benefit at large fires where a full supply of coal is needed at all times.

REPAIRS AND ALTERATIONS.

Complete repairs have been made to Engines Nos. 3, 4, 7, 8, 9, 11, 13, 14, 17, 20 and 22, and engine formerly No. 5 was thoroughly overhauled and painted and placed in commission at No. 26 house, corner Brinkert and Crane

avenues June 1st, 1901, together with hose wagon built by Gray Brothers.

While responding to an alarm September 25th, 1900, engine No. 19 collided with a street car in front of the the engine house, causing considerable damage. This machine was repaired and re-painted and placed in No. 5 house January 15th, 1901.

The following hose wagons have been repainted and repaired, viz: Nos. 1, 2, 4, 5, 8, 9, 12, 13 and 14.

Hose wagon formerly No. 10 was placed in commission at annex of No. 6 Ladder house June 1st, 1901, numbered Hose No. 3 and equipped with 1,000 feet of 3-inch hose. This wagon will be run as a tender to the Fire Boat Detroiter.

All ladder trucks and exercising wagons have been repaired and painted, including Haven brake on No. 7, and all sleighs used by officers of the Department have been repaired and varnished.

Ladder formerly No. 6 was transferred to No. 4 house; No. 4 to No. 8 and No. 8 to No. 10; these changes were made June 3rd, 1901.

Chemical Engine No. 8 has also been thoroughly overhauled and repainted.

Considerable repairs have been made on the stand pipe of Water Tower No. 1.

The following companies have been provided with the Baker patent universal cellar pipe, viz.: Ladder Nos. 1, 2, 3, 4 and 6.

The draft on all apparatus has been raised to the height of 30 inches, a valuable and serviceable improvement.

The Grant roller-bearing axles are being placed on engines Nos. 2, 3, 5 and 9.

Ladder Truck No. 5 has been provided with rollers and raised so as to allow 25 and 30 foot ladders under-

neath to be removed easily and without the former delay when long ladders were needed.

I have referred in former reports to the work done in the paint shop. This has been a great saving in the cost of repainting; the constantly increasing size of the Department making a great deal of this work necessary every year.

> Respectfully submitted, F. BEAUFAIT,

> > Superintendent of Apparatus.

OF

THE ACTING INSPECTOR OF BUILDINGS.

Assistant Chief's Office, Detroit, June 30th, 1901.

To the Honorable the Fire Commission:

GENTLEMEN—I have the honor to present herewith the operations of the Building Inspection Bureau during the fiscal year ending June 30, 1901.

The work of making the annual survey for the past year, commenced November 12th, 1900, by the captains and lieutenants of the several engine and ladder companies of the Department under the supervision of the Chiefs of their respective battalions.

Each company examined the number of buildings set opposite their respective numbers, as follows:

No.	1	Engine	Compa	ny		 									 				
No.		Engine																	
No.		Engine																	
No.		Engine																	
No.	5	Engine	Compa	ny		 	 								 				
No.	6	Engine	Comar	y.		 	 												
No.	7	Engine	Compa	ny		 			٠.		٠.	٠.							
No,		Engine																	
No.	9	Engine	Compa	ny		 	 •		٠.						 	٠.			
No.	10	Engine	Compa	ny	• •	 	 		٠.				٠.		 •	٠.			
No.	11	Engine	Compa	ny		 	 		٠.	•	•	٠.		•		٠.			
No.	12	Engine	Compa	ny		 		٠.			٠.								
No.	13	Engine	Compa	ny	• • •	 						٠.				٠.	•	٠.	
		Engine	_	-															
No.	15	Engine	Compa	ny		 	 						٠.		 				

No. 17 Engine Comapny	120
No. 18 Engine Company	74
No. 19 Engine Company	215
No. 20 Engine Company	67
No. 21 Engine Company	107
No. 22 Engine Company	187
No. 23 Engine Company	167
No. 24 Engine Company	46
No. 1 Ladder Company	165
No. 2 Ladder Company	391
No. 3 Ladder Company	395
No. 4 Ladder Company	249
No. 5 Ladder Company	216
No. 6 Ladder Company	236
No. 8 Ladder Company	194
No. 10 Ladder Company	78
Total	3,138
Increase	463

The number and character of violations of the ordinance for the prevention of fire, are as follows:

Chimneys not safe	20
Danger from lights	57
Danger from naphtha and gasoline	9
Danger from oiled rags	5
Danger from hot ashes	38
Danger from hatchways	6
Danger in other ways	63
Kerosene oil kept in barrels	0
No ladder to roof	24
No scuttle to roof	0
No zinc under stove	179
No soot drawers in chimney	17
Pipes not wired up properly	16
Pipe through partitions near woodwork	16
Total	450

An increase of four hundred and sixty-three buildings examined and forty-one more violations of the ordinance reported.

All of which is respectfully submitted.

JAMES C. BRODERICK,

Assistant Chief,

Acting Chief Inspector.



OF

SUPERINTENDENT OF WATER.

DETROIT, July 1st, 1901.

To the Honorable the Fire Commission:

Gentlemen—I have the honor to present herewith my report of the operations of the Water Supply corps during the fiscal year ending June 30th, 1901.

The following is a summary of the work performed during the year under my supervision:

HYDRANTS.

During the year the nozzles of all hydrants have been gone over and the threads of same re-cut to uniform standard size.

Waste holes are now being drilled in the upper chambers of all hydrants which will hereafter prevent the freezing of that part. This work will be finished before the setting in of cold weather.

The work of painting all hydrants and signal posts is now being carried on and will be completed in about three weeks.

All two-way hydrants have been simplified and changed to single valve hydrants by the removal of independent cut-offs.

Iro	n h	ıyd	rants pl	ace	d in new locations, as follows:		
	4 i	nch	. single r	ozzl	e	20	
	41/		"	"		5	
	5	"	46	"		126	
	6	,,	**	46		1	
	6	"	double r	ozzl	e	29	
		Т	otal	• • • •	- 		181
Iro	n h	ıyd	rants ta	ken	out as follows:		
	4 i	nch	. single r	ozzi	e	18	
	414		"	"		6	
	5	"	46	46		2	
	6	"	"	"		3	
		Т	otal				29
							152
					•••••		216
					sewer repaired		51
	H		•		, minor	145	
		"	•	•	extensive	222	
		"	•	4	total		367
	6 i	ncl	gates pu	ıt in	old hydrant connections		10
			-		nnections put in, on which double		
			-		be placed		15
					RESERVOIRS.		
	Cle	ean	ed				48
	Ch	an	ged from	woo	d to brick	•	27
			-		timbers were placed		34
		61		-	re placed on old connections		11
		46	_		pairs were made		157
		"			was put in		4
		ha	a	-	•		

All of which is respectfully submitted.

DANIEL W. CARROLL,

Chief of Sixth Buttalion,

Superintendent of Water.



OF

THE SUPERINTENDENT OF HORSES.

DETROIT, July 1st, 1901.

To the Honorable the Fire Commission:

GENTLEMEN—I have the honor to herewith submit my annual report.

The horses under my control are all in good condition. There are 201 horses in the Department.

During the year 53 horses were bought and 42 horses were sold. We have lost 2 horses, bay horse No. 6 was struck by trolley wire falling on him and instantly killed at a fire; brown horse No 40, while responding to alarm of fire dropped dead with heart disease.

During the year ending this date horses have been ordered out of service for the following causes:

Broken jaw	1	case.
Bleeding from nostril		"
Colic	27	"
Cut on knee	8	44
Cut on nostril	1	44
Cut on eye	1	"
Cut from falling on asphalt	20	64
Calked	5	44
Cut on head	3	"
Hurt in shoulder	10	"

THE FIRE COMMISSION.

Hurt in back	2	cases.
Epizootic	70	44
Lame in foot	21	16
Lame in hind legs	21	44
Lame in front legs	18	44
Lame in hip	4	44
Lame in stifle	3	44
Nail in foot	2	44
Off his feed	13	44
Overcome by heat	2	64
Paralysis	1	44
Shoe boil	6	"
Sore shoulder	8	44
Scratches	7	44
Sore eyes	6	66
Wind-broken	1	66

Showing a decrease in the number of deaths. All of which is respectfully submitted.

MARTIN COONEY,
Superintendent of Horses.

APPENDIX.

FIRE COMMISSIONERS.

FRED T. MORAN. OREN SCOTTEN.

FRANK H. CROUL. JOHN LENNANE.

PRESIDENT. - - FRED. T. MORAN.

VICE-PRESIDENT, - - FRANK H. CROUL.

SECRETARY-PURCHASER, GEORGE W. STOCKWELL.

COMMITTEES.

MEN AND OPERATION-MORAN, CROUL. FINANCE-LENNANE, SCOTTEN. HORSES-MORAN, CROUL. TRLEGRAPH-SCOTTEN, LENNANE.

> BUILDINGS-LENNANE, SCOTTEN. SUPPLIES-SCOTTEN, MORAN, APPARATUS-CROUL, MORAN. WATER-CROUL, LENNANE.

OFFICERS.

JOHN KENDALL, CHIRF OF DEPARTMENT. JAMES C. BRODERICK, ASSISTANT CHIEF OF DEPARTMENT. JOHN O'NEIL, CHIRF OF FIRST BATTALION. WILLIAM H. HARRIS, CHIEF OF SECOND BATTALION. GEORGE J. KELLY, CHIEF OF THIRD BATTALION. MAX F. W. WIRTH, CHIRF OF FOURTH BATTALION. JAMES W. MATHEWSON, CHIEF OF FIFTH BATTALION. DANIEL W. CARROLL, CHIEF OF SIXTH BATTALION. FRANCIS BEAUFAIT, SUPERINTENDENT OF APPARATUS. CORNELIUS BRESNAHAN. ASSISTANT SUPERINTENDENT OF APPARATUS. WILLIAM J. GARDINER, SUPERINTENDENT OF FIRE ALARM TELEGRAPH. MARTIN COONEY, SUPERINTENDENT OF HORSES. BENJ. P. BRODIE, DEPARTMENT SURGEON. WILLIAM H. BAXTER, FIRE MARSHAL. JOHN McDUFF, Assistant Fire Marshal.

STEAM FIRE ENGINE COMPANY No. 1.

Location corner of Wayne and Larned streets.

Extra first size Manning Engine. Went into service November, 1899. Two steam cylinders, 9 inches diameter, 9 inches stroke. Two double action piston pumps, 5½ inches in diameter, 9 inches stroke. Capacity, 1,200 gailons of water per minute. Weight when ready for service, 9,340 pounds; drawn by three borses. Attended by one four-wheeled Hose Wagon, with 600 feet of 3-inch and 500 feet of 2½ inch hose. Weight when ready for service, 5,330 pounds; drawn by two horses. Company organized October, 1860. House erected, 1889.

NAME.	Badge.	Position.	Residence.
Courtney, William	10	Captain	1169 Fourteenth ave.
Burgess, W	11	Lieutenant	260 Sixth st.
Stadler, Michael J	12	Engineer	308 Trumbull ave.
Cavinaw, Daniel C	13	Assistant Engineer	199 Howard st.
Halligan, D	14	Pipeman	31 Lawton ave.
Schreckenberg, F	15	Pipeman	831 Locust st.
McIntyre, S	16	Pipeman	255% Nineteenth st.
Wood, A. E	17	Pipeman	409 Cavalry ave.
Finan, James	18	Engine driver	253 Brooklyn ave.
Wallace, Dennis	19	Hose wagon driver	16 Linden st.
Collins, J. T	19A	Cadet	1284 Michigan ave.

STEAM FIRE ENGINE COMPANY No. 2.

Location on Hastings street, between Larned and Congress streets.

Extra first size Amoskeag Engine. Went into service December, 1893. Two steam cylinders, 8½ inches diameter, 8 inches stroke. Two double action piston pumps, 5 inches in diameter, 8 inches stroke. Capacity, 1,100 gallons of water per minute. Weight when ready for service, 10,750 pounds; drawn by three horses. Attended by one four-wheeled Hose Wagon, with 600 feet of 3-inch and 500 feet of 2½ inch hose. Carries one hand fire extinguisher. Weight when ready for service, 5,205 pounds; drawn by two horses. Company organized January, 1861. House erected, 1874.

NAME.	Badge.	Position.	Residence.
Cummings, M	20	Captain	348 Kercheval ave.
Drennan, J	21	Lieutenant	102 Calumet ave.
Schulte, A. C	22	Engineer	168 Monroe ave.
Katus, C.J	23	Assistant engineer	261 Rivard st.
Vizina, J	24	Pipeman	770 McDougall ave.
Schneider, F	25	Pipeman	632 Mullett st.
Waltensperger, F.J	26	Pipeman	298 Antietam st.
Cassidy, P	27	Pipeman	253 Congress st.
Sullivan, J.L	28	Engine driver	5 Union st.
Hill, William J	29	Hose wagon driver	236 Brooklyn ave.
Howe, B. W	29 A	Cadet	15 Aurelia st.

STEAM FIRE ENGINE COMPANY No. 3.

Location on Clifford st., near Woodward ave.

Second size LaFrance Engine. Went into service December, 1901. Two steam cylinders, 7½ inches diameter, 8 inches stroke. Two double action piston pumps, 4½ inches in diameter, 8 luches stroke. Capacity, 600 gallons of water per minute. Weight when ready for service, 8,270 pounds. Drawn by two horses. Attended by one four-wheeled Combination Hose Wagon with 1,000 feet of 2½-inch hose. Carries also a single 50 gallon tank fire extinguisher, 300 feet rubber hose and one hand fire extinguisher. Weight when ready for service, 5,620 pounds. Drawn by two horses. Company organized July, 1861. House erected, 1858; re-erected, 1890.

NAMB.	Badge.	Position.	Residence.
Meginnity, Edward H	80	Captain	436 Fourth ave.
Cullen, Peter	31	Lieutenant	589 Wabash ave.
Broderick, D	32	Engineer	832 Selden ave.
Martin, William A	33	Assistant Engineer	290 Myrtle st.
Uhlik, J. L	34	Pipeman	35 Buchanan st.
Kroetsch, G	35	Pipeman	131 Beech st.
Staub, G	36	Pipeman	1049 Scotten ave.
O'Shea, T	37	Pipeman	61 Humboldt ave.
Burgess, E. E	38	Engine driver	166 Beech st.
Schoenherr, F. M	39	Hose wagon driver	584 St. Antoine st.
Manson, W.J	39 A	Cadet	932 Sixteenth st.

STEAM FIRE ENGINE COMPANY No. 4.

Location on Eighteenth st., near Howard.

Fxtra second size, LaFrance Engine. Went into service July, 1896. Two steam cylinders, 7% inches in diameter, 9 inch stroke. Two double action piston pumps, 4% inches in diameter, 9 inch stroke. Capacity, 800 gallons of water per minute. Weight when ready for service, 8,570 pounds; drawn by three horses. Attended by one four-wheeled Hose Wagon, with 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 3,600 pounds; drawn by two horses. Company organized February, 1865. House erected, 1878. Re-erected 1897.

NAME.	Badge.	Position.	Residence.
Dardis, Edward R	40	Captain	140 Twentieth st.
Sheahan, M. J	41	Lieutenant	897 Clark ave.
Cook, G.W	42	Engineer	271 Eighteenth st.
Klapp, John H	43	Assistant engineer	119 Twenty-first st.
Hurley, Jeremiah	44	Pipeman	135 Nineteenth st.
Shannon, Harry J	45	Pipeman	212 Sixteenth st.
Smith, James	46	Pipeman	434 Twenty-fourth st.
Gilleran, T	47	Pipeman	192 Seventeenth st.
Bates, E. A	48	Engine driver	221 Twenty-first st.
Gallagher, R. J	49	Hose wagon driver	582 Seventeenth st.
Wilson, G. F	49A	Cadet	853 Third ave.
Liden, P	w	Watchman	130 Huron st.
Hammang, Nicholas		Departm't carpenter.	642 Howard st.

STEAM FIRE ENGINE COMPANY No. 5.

Location, on Alexandrine ave., near Cass ave.

First size Amoskeag Engine. Went into service October, 1891. Two steam cylinders, 7% inches in diameter and 8 inches stroke. Two double action piston pumps, 4% inches diameter and 8 inches stroke. Capacity, 900 gallons of water per minute. Weight when ready for service, 9.770 pounds; drawn by three horses. Attended by one four-wheeled combination Hose Wagon with 1.000 feet of hose; also a single 50-gallon tank fire extinguisher. Carries 250 feet rubber hose and one hand fire extinguisher. Weight when ready for service, 5,780 pounds; drawn by two horses. Company organized June, 1865. House erected, 1876.

NAME.	Badge	Position.	Residence.
Law, J. A	50	Captain	548 High st. w.
Platt, W. H	51	Lieutenant	211 Brainard st.
Atwood, S. P	52	Engineer	261 Theodore st.
Lamson, Henry L	58	Assistant engineer	1090 Rivard st.
Curtiss, Myron A	54	Pipeman	309 Willis ave. w.
Stephens, E. E	55	Pipeman	877 Sixteenth st.
Mitchell, W	56	Pipeman	592 Righth st.
Northrup, G. E	57	Pipeman	198 Alexandrine ave
Ferris, Wm	58	Engine driver	99 Lysander st.
Ketcham, W. L	59	Hose wagon driver	283 Canfield av. w.
Schultz. J. F	59A	Cadet	836 Michigan ave.
	w	Watchman	

STEAM FIRE ENGINE COMPANY No. 6.

Location, corner High and Russell sts.

Extra first size Amoskeag Engine. Went into service January, 1893. Two steam cylinders, 8½ luches in diameter and 8-inch stroke; two double action piston pumps, 5 inches in idiameter and 8-inch stroke. Capacity, 1,100 gallons of water per minute. Weight when ready for service, 10,530 pounds; drawn by three horses. Attended by one four-wheeled combination Hose Wagon with 1,000 feet of hose, also a single 50 gallon tank Fire Extinguisher. Carries 250 feet rubber hose, one 16-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 5,550 pounds; drawn by two horses. Company organized April, 1868. House erected, 1867.

NAME.	Badge.	Position.	Residence.
Bishop, M	60	Captain	6 Lyman place.
Seibert, E.J	61	Lieutenant	817 Division st.
Henrion, J. P	62	Engineer	295 Division st.
Brady, W. J	68	Assistant engineer	1144 Baldwin ave.
Knoblesdorf, Charles	64	Pipeman	162 Livingstone ave.
Rohde, G. D	65	Pipeman	178 Catherine st.
Hummell, R	66	Pipeman	186 Jay st.
Maher, J. F	67	Pipeman	498 St. Antoine st.
Harlock, Charles	68	Engine driver	288 Alfred st.
Heck, W	69	Hose wagon driver	85 Maple st.
Long, William E	69 A	Pipeman	898 Rivard st.
Leadbeater, E	69B	Cadet	256 Russell st.
Little, C. A	w	Watchman	786 Rivard st.

STEAM FIRE ENGINE COMPANY No. 7.

Location, on Concord ave., near Congress st.

First size built by the Ahrens Manufacturing Co. Went into service August, 1890. Two steam cylinders, 7% inches diameter and 3 inches stroke. Two double action piston pumps, 4% inches diameter and 8 inches stroke. Capacity, 800 gallons of water per minute. Weight when ready for service, 8,460 pounds; drawn by three horses. Attended by one four-wheeled Hose Carriage, with 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,175 pounds; drawn by two horses. Company organized February, 1874. House erected 1888.

NAME.	Badge	Position.	Residence.
Hertzel, J. F	70	Captain	1133 Mack ave.
Simmons, Edward	71	Lieutenant	211 Meldrum ave.
McKernan, James J	72	Engineer	218 Bellevue ave.
deCaussin, L. H	78	Assistant engineer	370 Townsend ave.
Dasbach, Philip P	74	Pipeman	884 Clinton ave.
Barkley, J. A	75	Pipeman	327 Sheridan ave.
Regner, T. J	76	Pipeman	288 Clinton ave.
Brando, V. R	77	Pipeman	200 Meldrum ave.
Gibney, J. T	78	Engine driver	544 Fifteenth st.
Wilkiuson, F. G	79	Hose wagon driver	245 Bellevue ave.
Kortan, A	79A	Cadet	240 Lawton ave.
Ritchie, Jas	w	Watchman	593 Fort st. e.

STEAM FIRE ENGINE COMPANY No. 8.

Location, corner Baker and Sixth sts.

Extra first size, built by Thos. Manning, Jr. & Co. Went into service October, 1887. Two steam cylinders, 8% luches in diameter and 9-inch stroke; two double action piston pumps, 5 inches in diameter and 9-inch stroke. Capacity, 1,100 gallons of water per minute. Weight when ready for service, 9,710 pounds; drawn by three horses. Attended by one four-wheeled combination Hose Wagon with 1,000 feet of hose; also a single 50 gallon tank Fire Extinguisher. Carries 250 feet rubber hose and one hand fire extinguisher. Weight when ready for service, 5,000 pounds; drawn by two horses. Company organized June, 1873. House erected 1872.

NAME.	Badge.	Position.	Residence.
Atwood, G. S	80	Captain	260 Bagg st.
Konen, H	81	Lieutenant	69 Park ave.
Hurley, D	82	Engineer	558 Porter st.
Murdock, E. E	88	Assistant engineer	126 Sixteenth st.
McGloin, P. C	84	Plpeman	278 Twentieth st.
Thompson, A	85	Pipeman	1411 Michigan ave.
Walsh, Joseph A	86	Pipeman	607 Vinewood ave.
Prior, O. A	87	Pipeman	902 Michigan ave.
Bostwick, Farrand	88	Engine driver	339 Fourteenth ave.
Breed, W. W	89	Hose wagon driver	941 Vinewood ave.
Lamberg, A. G	89 A	Cadet	27 Charlevoix st.
Butler, G. W	601	Supply driver	284 Sixth st.
	w.	Watchman	

STEAM FIRE ENGINE COMPANY No. 9.

Location, corner Larned and Riopelle sts.

Extra first size Amoskeag Engine. Went into service January, 1893. Two steam cylinders, 8½ inches diameter and 8 inches stroke. Two double action piston pumps, 5 inches diameter and 8 inches stroke. Capacity, 1,100 gallons of water per minute. Weight when ready for service, 10,620 pounds; drawn by three horses. Attended by one four-wheeled combination Hose Wagon with 1,000 feet of hose, also a single 50 gallon tank fire Extinguisher. Carries 250 feet rubber hose and one hand fire extinguisher. Weight when ready for service, 5,630 pounds; drawn by two horses. Company organized April, 1880. House erected 1859.

NAME.	Badge.	Position.	Residence.
DeMay, S. J	90	Captain	224 Sheridan ave.
Winter, C	91	Lieutenant	167 Sherman st.
Bieser, Martin	92	Engineer	121 Macomb st.
Little, H.J	98	Assistant engineer	302 Orleans st.
Heil, John C	94	Pipeman	625 Mullett st.
Kenny, W. D	95	Pipeman	248 Congress st. e.
Sutter, H	96	Pipeman	12 Beaman st.
Bertoli, F	97	Pipeman	188 Elizabeth st. e.
McIlvenna, J	98	Engine driver	104 Breckenridge st.
Gurry, J. W	99	Hose wagon driver	290 Fort st. e.
Lockman, F	99A	Cadet	331 Larned st. e.
******************************	099	Chief's driver	
Crouch, B. H	w	.Watchman	390 Congress st. e,

STEAM FIRE ENGINE COMPANY No. 10.

Location, Sixteenth at the head of Bagg st.

Extra first size, built by Thos. Manning, Jr. & Co. Went into service November, 1900. Two steam cylinders, 9 inches in diameter and 9 inches stroke. Two double action piston pumps, 5¹, inches in diameter and 9 inches stroke. Capacity, 1,100 gallons of water per minute. Weight when ready for service, 10,625 pounds; drawn by three horses. Attended by one four-wheeled Hose Wagon with 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,305 pounds; drawn by two horses. Company organized January, 1883. House erected 1882.

NAME.	Badge.	Position.	Residence.
McGraw, William	100	Captain	442 Sixteenth st.
Sullivan, John E	101	Lieutenant	793 Sixteenth st.
Krug, W. J	102	Engineer	476 Fourteenth ave.
Brown, J	103	Assistant engineer	341 Twenty-fourth st.
Dinau, D. J	104	Pipeman	781 Sixteenth st.
O'Brien, W. P	105	Pipeman	669 Sixth st.
Fleury, G.T	106	Pipeman	205 Third st.
McGowean, Thomas	107	Pipeman	215 Maybury ave.
Wallace, John		Engine driver	817 Wabash ave.
Bruckner, E. W	109	Hose wagon driver	1189 Lafayette ave.
Wilson, M	1094	Cadet	155 Wabash ave.
Bringard, Xavier	w	Watchman	26 Western Market.

STEAM FIRE ENGINE COMPANY No. 11.

Location corner Gratiot and Grandy aves.

Second size crane neck, built by Thos. Manning, Jr. & Co. Went into service January 19, 1899. Two steam cylinders 7% inches in diameter and 8 inches stroke. Two double action piston pumps, 4% inches in diameter and 8 inches stroke. Capacity, 600 gallons of water per minute. Weight when ready for service, 7,615 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon, drawn by two horses, and carrying 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,435 pounds. Company organized January, 1884. House erected 1883.

NAME.	Badge.	Position	Residence.
Bowman, William	110	Captain	800 Mt. Elliott ave.
Roberts, F. H	111	Lieutenant	281 Hale st.
Mayer, Alvarado	112	Engineer	25 Preston st.
Goetz, Gustav J	113	Assistant engineer	570 Mack ave.
Glldermeister, C	114	Pipeman	806 Mt. Elliott ave.
Croasdell, T. B	115	Pipeman	1345 Concord ave.
Haustein, E. W	116	Pipeman	548 Gratiot ave.
Holz, A. F	117	Pipeman	590 Chene st.
Trombly, Vincent N	118	Engine driver	262 Grandy ave.
Tieman, F	119	Hose wagon driver	48 Berlin st.
Rapp, J. W	1194	Cadet	756 St. Antoine st.
Haustein, F	w	Watchman	608 Catherine st.

STEAM FIRE ENGINE COMPANY No. 12.

Location cor. Grand River ave. and Sixteenth st.

Fourth size Clapp & Jones Engine. Went into service November 1, 1899. Two steam cylinders, 7 inches in diameter and 7 inch stroke. Two double action piston pumps, 4 inches in diameter and 7 inch stroke. Capacity, 500 gailons of water per minute. Weight when ready for service, 8,850 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon, drawn by two horses, and carrying 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,005 pounds. Company organized December, 1886.

NAME.	Badge.	Position.	Residence.
Causley, J. E	120	Captain	986 Sixteenth st.
Fletcher, Levi T	121	Lieutenant	902 Fifteenth st.
Manson, James W	122	Engineer	932 Sixteenth st.
Aiton, R	123	Assistant engineer	204 McGraw ave.
Shea, E. D	124	Pipeman	80 Poplar st.
Kroehl, Charles A	125	Pipeman	861 Humboldt ave.
Hagan, P	126	Pipeman	775 Wabash ave.
Driscoll, Charles H	127	Pipeman	151 Elm st.
Warrington, James H	128	Engine driver	228 Harrison ave.
Shanahan, Michael	129	Hose wagon driver	285 Greenwood ave.
Cwomey. J. J	129A	Cadet	57 National ave.

STEAM FIRE ENGINE COMPANY No. 13.

Location, corner Russell and Ferry streets.

First size, built by Thos. Manning, Jr. & Co. Went into service May, 1896. Two steam cylinders, 8½ inches in diameter and 8 inch stroke: two double action piston pumps, 6 inches in diameter and 8 inch stroke. Capacity, 1,000 gallons of water per minute. Weight when ready for service, 8,620 pounds. Drawn by three horses. Attended by one four-wheeled Hose Wagon, drawn by two horses, and carrying 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 3,930 pounds. Company organized January, 1887. House erected, 1886.

NAME.	Badge.	Position.	Residence.
Tate, L. H	130	Captain	359 Montcalm st. e.
Noyes, T. J	181	Lieutenant	1167 Russell st.
Weiderhold, John	132	Engineer	405 Warren ave. e.
Griffith, E. B	133	Assistant engineer	885 Brush st.
Lightle, E. E	184	Pipeman	1287 Russell st.
Gerhard, A. H	135	Pipeman	626 Ferry ave.
Smith, Alfred O	136	l'ipeman	887 St. Antoine st.
Paquette, U. L	137	Pipeman	1289 Russell st.
Andrews, J. E	138	Engine driver	1022 Russell st.
Marquardt, W. H	139	Hose wagon driver	188 Moran st.
Knapp, J. J	1394	Cadet	253 Twentieth st.
Atkinson, E	w	Watchman	1167 St. Aubin ave.

STEAM FIRE ENGINE COMPANY No. 14.

Location, Scotten ave., near Michigan ave.

Second size, built by the American Fire Engine Co. Went into service July, 1896. Two steam cylinders, 8 inches in diameter and 7 inches stroke. Two double action piston pumps, 4½ inches in diameter and 7 inches stroke Capacity, 800 gallons of water per minute. Weight when ready for service, 7.800 pounds: drawn by three horses. Attended by one four-wheeled Hose Wagon, with 1,000 feet of hose; drawn by two horses. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,270 pounds. Company organized February, 1888. House erected, 1887.

NAME.	Badge.	Position.	Residence.
McKenny, J. E	140	Captain	272 Twenty-third st.
Reidel, Oscar	141	Lieutenant	659 Eighteenth st.
Klawiter, Henry	142	Engineer	583 Scotten ave.
Moore, G E	143	Assistant engineer	83 Labrosse st.
Keating, E	144	Pipeman	137 Brandon ave.
Atkinson, J. H	145	Pipeman	848 Twenty-fifth st.
Stackpole, W	146	Pipeman	63 Humboldt ave.
Breen, William A	147	Pipeman	422 Twenty-fourth at
Carrier, J. L	148	Engine driver	435 Thirteenth st.
Hoffman, W. M	149	Hose wagon driver	1189 Junction ave.
Meskill, J	1494	Cadet	287 Trombley ave.
Shields, J	w	Watchman	918 Scotten ave.

STEAM FIRE ENGINE COMPANY No. 15.

Location, Hubbard avenue, near Fort street.

Second size crane neck, built by Thos. Manning, Jr. & Co. Wentinto service September 16, 1894. Two steam cylinders, 7% inches in diameter and 8 inches stroke. Two double action piston pumps 4% inches in diameter, 8 inches stroke. Capacity, 600 gallons of water per infinite. Weight when ready for service, 7.640 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon, drawn by two horses, and carrying 1,000 feet of hose. Carrier one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,025 pounds. Company organized, December, 1888. House erected, 1888.

NAME.	Badge.	Position.	Residence.
Bresnahan, Michael	150	Captain	86 Twentieth st.
Wood, H	151	Lieutenant	168 Tenth st.
Dalley, J	152	Engineer	142 Twentieth st.
Nuhfer, P. J	153	Assistant engineer	571 Military ave.
Klibbe, A. H	154	Pipeman	319 Dix ave.
Harcourt, William J	155	Pipeman	624 Hubbard ave.
Alexander, J. H	156	Pipeman	103 Twentieth st.
Brown, J	157	Pipeman	62 Hussar ave.
Waldon, J. H	158	Engine driver	294 Lansing ave.
Egan, Wm	159	Hose wagon driver	179 Twentieth st.
Dwyer, M	159A	Cadet	826 Boulevard w.
Adameke, John	w	Watchman	75 Eighteenth st.

STEAM FIRE ENGINE COMPANY No. 16.

Fire Boat James Battle, location, near foot of Fifth street.

Built by the Detroit Ship Building Co., of Detroit, Mich. Went into service January, 1901. The hull is of steel. Length over all 122 feet, beam 25 feet, depth 13 feet. Engine built by the same company, and the pumps by Thomas Manning, Jr. & Co., of Cleveland, Ohio. The propelling engine has cylinders 18 inches in diameter by 24 inches stroke. The two sets of pumps, each with 3 steam and 8 water cylinders, will furnish a supply of 6,000 galons of water per minute. The diameters of the steam cylinders are 14 inches, water cylinders, 8 inches by 11 inches stroke. Boat carries 2,000 feet of 3-inch, 2,000 feet of 3½ inch, and 1,000 feet of 2½ inch hose. Company organized July, 1898. Boat built 1901. House erected 1893.

NAME.	Badge	Position.	Residence.
Morrison, Roderick	160	Captain	85 Howard st.
Kemberling, H. F	161	Lieutenant	97 Elmwood ave.
Slavin, Patrick	162	Engineer	884 Abbott st.
Purvis, A. C	162A	Assistant engineer	168 Junction ave.
Morrison, J. N	162	Pilot	274 Fort st. w.
Ney, C. R	163	Pilot	198 Twelfth st.
Waterman, A	164	Stoker	145 Trumbull ave.
Mohr, George	165	Stoker	90 Abbott st.
Creedon, C	166	Pipeman	598 Sixteenth st.
Talbot, E	167	Pipeman	58 Sixteenth st.
Goldwater, G	168	Pipeman	158 Twenty-first st.
Graham, J	169	Pipeman	581 Fort st.w.
Gendernalik, L	1694	Cadet	205 Rowena st.

STEAM FIRE ENGINE COMPANY No. 17.

Location, cor. Cass ave. and Amsterdam st.

First size built by the Ahrens Manufacturing Co. Went into service October, 1887. Two steam cylinders, 7% inches diameter and 8 inches stroke. Two double action piston pumps, 4% inches diameter and 8 inches stroke. Capacity, 800 gailons of water per minute. Weight when ready for service, 8,580 pounds; drawn by three horses. Attended by one four-wheeled Hose Wagon, drawn by two horses, and carrying 1,000 feet of hose, one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,345 pounds. Company organized December, 1888. House erected, 1888.

NAME.	Badge.	Position.	Residence.
Baxter, David R	170	Captain	72 Baltimore ave. w.
Cremin, D. J	171	Lieutenant	203 Milwaukee ave. w
Chapman, William H	172	Engineer	66 Baltimore ave. w.
McLott, Peter	178	Assistant engineer	801 Baltimore ave. w.
Plunkett, M. E	174	Pipeman	273 Sixteenth st.
Sipple, Louis	175	Pipeman	387 Piquette ave. w.
Briggs, James F	176	Pipeman	148 Columbia st. e
Butler, William	177	Pipeman	24 Milwaukee ave. e,
Sheehan, Cornelius	178	Engine driver	78 Baltimore ave. w.
Opdyke, A. D	179	Hose wagon driver	304 Woodward ave.
Berry, J	179A	Cadet	61 Michigan ave.

STEAM FIRE ENGINE COMPANY No. 18.

Location on Mt. Elliott ave., near Sylvester st.

Second size Amoskeag Engine. Went into service September, 1877. Two steam cylinders, 6% inches in diameter and 8 inches stroke. Two double action piston pumps, 4% inches in diameter and 8 inches stroke. Capacity, 500 gallons of water per minute. Weight when ready for service, 7,875 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon, with 1,000 feet of hose, and carries one 16-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,020 pounds; drawn by two horses. Company organized May, 1893. House erected 1893.

NAME.	Badge.	Position.	Residence.
Veith, J. F	180	Captain	262 Elizabeth st. e.
Kern, H	181	Lieutenant	696 Campau ave.
Denyer, Daniel E	182	Engineer	974 Meldrum ave.
Fogarty, M	183	Assistant engineer	1616 Gratiot ave.
Sageman, W	184	Pipeman	771 Meldrum ave.
Natus, W. P	185	Pipeman	416 Maple st.
Plant, William	186	Pipeman	205 Preston st
Keating, Dennis P	187	Pipeman	1261 Canton ave.
Raetz, A	188	Engine driver	58 Pulford st.
Seifferlein, J. C	189	Hose wagon driver	872 Meldrum ave.
Heuer, F	189A	Cadet	734 Alexandrine ave
Walz, Charles	606	Supply driver	481 Mullett st.
Black, John Jr	w	Watchman	495 Canfield ave. e.

STEAM FIRE ENGINE COMPANY No. 19.

Location on Congress st., near Jos. Campau ave.

Extra first size, built by Thos. Manning, Jr.& Co. Went into service November, 1901. Two steam cylinders, 9 inches diameter, 9 inches stroke. Two double action piston pumps, 5½ inches in diameter, 9 inches stroke. Capacity, 1,100 gallons of water per minute. Weight when ready for service, 10,525 pounds; drawn by three horses. Attended by one four-wheeled Hose Wagon, with 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,810 pounds; drawn by two horses. Company organized January, 1894. House erected 1893.

NAME.	Badge	Position.	Residence.
Breitenbecher, H. J	190	Captain	119 Macomb st.
Higgins, D. D	191	Lieutenant	261 Jefferson ave.
Rodier, J. A	192	Engineer	572 Champlain st.
Osborne, W. L	198	Assistant engineer	127 Abbott st.
Sullivan, J. P	194	Pipeman	147 Calumet ave.
Haustein, E. G	195	Pipeman	288 Sheridan ave.
Roehm, C. E	196	Pipeman	261 Jefferson ave.
Noonan, L	197	Pipeman	406 Sherman st.
Martin, C : :	198	Engine driver	617 Larned st. e.
Sheehan, C. C	199	Hose wagon driver	491 Larned st. e.
Ponting, F	199A	Cadet	123 Cass ave.
Hess, W	w	Watchman	718 Franklin st.

STEAM FIRE ENGINE COMPANY No. 20.

Location, Gratiot ave., near Baldwin.

Fourth size Silsby Engine. Went into service January, 1887. Capacity, 500 gallons of water per minute. Two discharge openings; rotary pumps. Weight when ready for service, 6,599 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon with 1,000 feet of hose. Carries one 16 foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,050 pounds; drawn by two horses. House erected 1896. Company organized July, 1896.

NAME.	Badge.	Position.	Residence.
Robinson, G. A	200	Captain	1215 Townsend ave.
Kruger, E. A	201	Lieutenant	1166 Baldwin ave.
Henry, W. L	202	Engineer	542 Campau ave.
Schulte, R. M	ຸ່ 208	Assistant engineer	521 St. Aubin ave.
Swarz, John J	204	Pipeman	579 Stephens ave.
Harris, W. J	205	Pipeman	914 Townsend ave.
Trapp, Henry J	206	Pipeman	1123 Field ave.
Ladensack, A. J	207	Pipeman	1313 Townsend ave.
Caldwell, George E	208	Engine driver	1385 Concord ave.
Avery, Benjamin W	209	Hose wagon driver	1201 Baldwin ave.
Gumbrecht, F. S	209A	Cadet	504 Dubois st.
Coats, H	w	Watchman	1166 Baldwin ave.

STEAM FIRE ENGINE COMPANY No. 21.

Location on Lincoln are., near Piquette are.

Second size crane neck, built by Thos. Manning, Jr. & Co. Went into service October, 1899. Two steam cylinders, 6% inches in diameter and 7% inches stroke. Two double action piston pumps, 4 inches in diameter and 7% inches stroke. Carpacity, 500 gallons of water per minute. Weight when ready for service, 6,650 pounds: drawn by two horses. Attended by one four-wheeled Hose Wagon with 1,000 feet of hose. Carries one 15 foot extension ladder and one hand fire extinguisher. Weight when ready for service, 8,705 pounds; drawn by two horses. Company organzed July, 1896. House erected 1895.

NAME.	Badge	Position.	Residence.
Sullivan, Patrick H	210	Captain	1015 Twelfth st.
Rourke, P. J	211	Lieutenant	474 Avery ave.
Hawley, David F	212	Engineer	922 Fifteenth st.
Fletcher, George C. T	218	Assistant engineer	617 Greenwood ave.
Simmons, J. W	214	Pipeman	1215 Fifteenth st.
Hayden, J. L	215	Pipeman	648 Wabash ave.
Scheland, H	216	Pipeman	295 Larned st. e.
Draheim, Frederick W	217	Pipeman	1267 Fourteenth ave.
Sheldrick, H. T	218	Engine driver	605 Lincoln ave.
Cockburn, A	219	Hose wagon driver	51 Bryant at.
Boyle, J. J	2194	Cadet	1103 Trumbull ave.
Connor, Martin	w	Watchman	702 Third ave.

STEAM FIRE ENGINE COMPANY No. 22.

Location on Michigan ave., near Welch ave.

Third size crane neck. Double pump and cylinder, with coil boiler. Built by the Ahrens Manufacturing Co. Went into service December, 1888. Two steam cylinders, 6 inches in diameter, 8 inches stroke. Two double action piston pumps, 3½ inches in diameter, 8 inches stroke. Capacity, 500 gallons of water per minute. Weight when ready for service, 6,017 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon with 1,000 feet of hose. Carries one 16 foot extension ladder, and one hand fire extinguisher. Weight when ready for service, 8,610 pounds; drawn by two horses. Company organized July, 1896. House erected 1895.

NAME.	Badge	Position.	Residence.
Conklin, H. G	220	Capain	152 E st.
Wolfschlager, C. L	221	Lieutenant	120 Maybury ave.
Mahan, Thomas L	222	Engineer	1279 Michigan ave.
Whitbeck, B. E	223	Assistant engineer	374 Morrell st.
Brinker, Peter J	224	Pipeman	814 Junction ave.
Ockenfels, J	225	Pipeman	281 Thirty-third st.
Engel, N. G	226	Pipeman	1885 Campbell ave.
Krantz, J	227	Pipeman	198 Twenty-sixth st
Sigman, A. H	228	Engine driver	57 Lovett ave.
Brown, C. P	229	Hose wagon driver	840 Vinewood ave.
Sanderson, W	229▲	Cadet	454 Eighteenth st.
Hopkins, A	w	Watchman	68 Thirty-second st.

STEAM FIRE ENGINE COMPANY No. 23.

Location, corner Moran st. and Boulevard.

Second size Amoskeag Engine. Went into service April 1, 1868. Frame changed to crane neck in 1877. Two steam cylinders, 6% inches in diameter and 8 inches stroke. Two double action piston pumps, 4 inches in diameter and 8 inches stroke. Capacity, 500 gallons of water per minute. Weight when ready for service, 7,440 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon, with 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 3,610 pounds; drawn by two horses. Company organized July 1, 1899. House erected 1898.

NAME.	Badge	Position.	Residence.
Weitzel, Francis	230	Captain	1427 Mt. Elliott ave.
Campau, R	231	Lieutenant	968 Ferry ave.
Leckner, Wm. B	282	Engineer	1162 St. Aubin ave.
Howard, T. A	238	Assistant Engineer	927 Harper ave.
Virgin, Gus	284	Pipeman	807 Superior st.
Avery, J. B	235	Pipeman	1026 Kirby ave. e.
Opfer, J. B	286	Pipeman	230 Chestnut st.
Ciliax, W. C	237	Pipeman	938 Frederick st.
Dubois, S. M	238	Engine driver	1242 Jos. Campau ave
Miller, M. W	239	Hose wagon driver	511 Moran st.
Wolf, P	239₄	Cadet	203 Seventeenth st.
	w	Watchman	

STEAM FIRE ENGINE COMPANY No. 24.

Location, Mott ave., near Woodward ave

Second size Amoskeag Engine. Went into service September 20, 1872. Two steam cylinders, 6% inches in diameter and 8 inches stroke. Two double action piston pumps, 4 inches in diameter and 8 inches stroke. Capacity, 500 gallons of water per minute. Weight when ready for service, 7,180 pounds; drawn by two horses. Attended by one four-wheeled Hose Wagon, with 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 3,650 pounds; drawn by two horses Company organized July 1, 1899. House erected 1898.

NAME.	Badge.	Position.	Residence.
Hogan, T. E	240	Captain	1037 Third ave.
Doran, John	241	Lieutenant	100 Milwaukee ave. e.
Wakeley, James A	242	Engineer	88 Horton ave.
Nicoll, W. R		Assistant Engineer	1223 John R. st.
Stocks, F. E	244	Pipeman	212 Baltimore ave.
Mittelstat, W	243	Pipeman	293 Koch ave.
Newell, J. B	1	Pipeman	79 Milwaukee ave.
Flscher, Henry	247	Pipeman	77 Milwaukee ave.
Westphal, L	248	•	1540 John R. st.
Seacord, Asa	249	Hose wagon driver	110 Smith ave.
Breen, M. J	249A		82 Baltimore ave. w.
Zimmerman, W	w	Watchman	465 Sixteenth st.

STEAM FIRE ENGINE COMPANY No. 25.

Fire Boat Detroiter, location, near foot of McDougall ave.

Built by the Craig Ship Building Co. of Toledo, Ohio. Engine built by the Cowles Engineering Co. of Brooklyn, N. Y., and the pumps by Thomas Manning. Jr. & Co. of Cleveland, Ohio. The double horse power engine has cylinders in inches in diameter by 20 inches stroke. The two sets of pumps, each with two steam and two water cylinders, will furnish a supply of 5,000 gallons of water per minute. The diameters of the steam cylinders are 16 inches, water cylinders, 9½ inches by 12 inches stroke. Boat carries 2,000 feet of 3-inch, 2,000 feet of 3½-inch and 600 feet of 2½-inch hose. Company organized June, 1901. Boat built, 1833. House erected 1901.

NAME.	Badze	Position.	Residence.
Dohany, W. D. Hartman, F. J. Wilkinson, C. Jarvis, F. L. West, T. J. Lups, W. F. Thurman, W. F. McCormick, C. P.	251 252 252 _A 252 _B 253 254 255 256 257 258 259 _A	Pilot Pilot Stoker Stoker Pipeman Pipeman Pipeman	208 Meldrum ave. 554 Meldrum ave. 108 Townsend ave. 709 Champlain st. 805 Fort st. e. 828 Franklin st. 717 Congress st. e. 887 Beaufalt ave. 876 Monroe ave. 81 Jos. Campau av 676 Clinton ave. 82 Elmwood ave. 527 Larned st. e. 807 Fort st. e.

STEAM FIRE ENGINE COMPANY No. 26.

Location, corner Crane and Brinkert aves.

First size Amoskeag Engine. Went into service May, 1882. Two steam cylinders, 7% inches in diameter and 8 inches stroke. Two double action piston pumps, 4½ inches diameter and 8 inches stroke. Capacity, 600 gallons of water per minute. Weight when ready for service, 8,300 pounds; drawn by three horses. Attended by one four-wheeled Hose Wagon with 1,000 feet of hose. Carries one 15-foot extension ladder and one hand fire extinguisher. Weight when ready for service, 4,146 pounds; drawn by two horses. Company organized June, 1901. House erected 1901.

NAME.	Badge.	Position.	Residence.
Lanthier, C. H	260	Captain	155 Sheridan ave.
Dupont, C. A	261	Lieutenant	849 Gratiot ave.
Паав. А	202	Engineer	959 Meldrum ave.
McMahon, M	263	Assistant engineer	638 Lincoln ave.
Cole J. E.	964	Pipeman	330 Crane ave.
Theut, J.E	265	Pipeman	130 Helen ave.
Welsh, J. II	266	Pipeman	346 Hibbard ave.
Mahonev. J	267	Pipeman	130 Helen ave.
Gurry, T	1268	Engine driver	395 Bowen ave.
Haustein, J	1269	Hose wagon driver	239 Sheridan ave.
Blanchard, O. A	269A	Cadet	246 Townsend ave
Fitzhenry, J	l W	Watchman	274 Baker st.

LADDER COMPANY No. 1.

Location corner Wayne and Larned streets.

Truck went into service March, 1898. Turn-table aerial truck, built by the Fire Extinguisher Manufacturing Co., Chicago, Ill., rebuilt September, 1897, with the Gleason & Bailey ladder raising appliance attached. Length of main ladder, when extended, 85 feet. Carries the following apparatus: One extension ladder, one ladder 85-foot, one 20-foot, one 20-foot, one 19-foot, one 19-foot, one 19-foot, one 19-foot and one 19-foot extension ladder, one 19-foot and one 19-foot foof ladder, one 19-foot for main extension ladder, one Pompler ladder outfit, one hose roller, with 275 feet of rope, one life net, four Babcock hand fire extinguishers, 25 feet of 3½-inch hose with three-way slamese and pipe holder, and two pair electric wire cutters. Weight when ready for service, 11,450 pounds; drawn by three horses. Company organized May, 1861. House erected 1889.

NAME.	Badge.	Position.	Residence.
Garr, Peter R	310	Captain	878 Fifth st.
Becht, Charles W	311	Lieutenant	141 Humboldt ave.
Risher, G. D	812	Ladderman	88 Linden ave.
Cooke, John A	818	Ladderman	157 Locust st.
Daniel, W. J	814	Ladderman	552 Porter st.
Gaffney, C	815	Ladderman	62 Fifteenth st.
Curran, F	316	Ladderman	845 Nineteenth st.
Cotter, M	817	Ladderman	196 Wabash ave.
Brazier, C. A	818	Ladderman	373 Rowena st.
Buckley, E.G	319	Truck driver	152 Third st.
Gariepy, J. H	819A	Cadet	826 Boulevard w.

LADDER COMPANY No. 2.

Location, corner Larned and St. Antoine sts.

Truck went into service July 20, 1899. Turn table aerial truck, built by the La France Engine Co., Elmira, N. Y. Length of main ladder when extended, 86 feet. Carries the following apparatus: one extension ladder 60 feet, two 35 feet ladders, one ladder 30 feet, one 25 feet, one 20 feet, one 18 feet, one 16 feet, one roof ladder 14 feet, one 12 and one 14 foot extension ladder; one set of Pompler ladders with belts; one life net; four Babcock hand fire extinguishers; 25 feet 3½-inch hose with three-way siamese and pipe holder, and two pair electric wire cutters. Weight when ready for service, 11,050 pounds; drawn by three horses. Company organized August, 1871. House erected 1857.

NAME.	Bad ge.	Position.	Residence.
Hoeninghausen, E. G	320	Captain	1015 VanDyke ave.
Boberitz, C	321	Lieutenant	309 Clinton st.
Kube, F	322	Ladderman	75 Fourteenth ave.
Driscoil, J.J	328	Ladderman	151 Elm st.
Kelly, M. F	324	Ladderman	707 Fort st. e.
Hurley, J	325	Ladderman	106 Eighth st.
Bourke, J.J	326	Ladderman	430 Champlain st.
McElmurry, L. E	327	Ladderman	409 Fort st. e.
Raetz, J	328	Ladderman:	203 Mullett st.
McPhail, R	329	Driver	485 Larned st. e.
Bows, F	329A	Cadet	1180 Russell st.
	w	Watchman	
	. '		l

LADDER COMPANY No. 3.

Location on Montcalm, near Park street.

Truck went into service July, 1893. Turn table aerial truck, built by Fire Extinguisher Manufacturiug Co. of Chicago. Re-built December 8, 1898. by the LaFrance Engine Co., Elmira, N. Y. Length of main ladder when extended, 86 feet. Carries the following apparatus: One 45-foot extension ladder, two ladders 35-feet, 2 ladders 30 feet, one 20 feet, one 18 feet, one 16 feet, one 14 feet, and one 12 foot roof ladder, one 12 foot extension ladder, one set of Pompier ladders with belts, one life net, 25 feet of 3 inch hose with slamese and pipe holder, four Babcock hand fire extinguishers, one pair electric wire cutters. Weight when ready for service, 10,200 pounds; drawn by three horses. Company organized February, 1881. House erected 1879.

NAME.	Badge.	Position.	Residence.
Burgess, H	330	Captain	105 Koch ave.
Gaffney, F	331	Lieutenant	235 Fourteenth ave.
Murnane, M	332	Ladderman	668 Seventeenth st.
Burkheiser, C	333	Ladderman	639 Chene st.
Weitzel, M	334	Ladderman	131 Third st.
O'Neil, John F	335	Ladderman	11 Noble st.
Clinton, J. E	336	Ladderman	253 Ash st.
Herig, Henry T	837	Ladderman	881 Sixteenth st.
Rallantine, H.G	338	Ladderman	500 Wabash ave.
Israel, W. F	339	Driver	519 Hancock ave. w.
Lynch, J.P	339	Cadet	1173 Fort st. w.
	w	Watchman	

LADDER COMPANY No. 4.

Location on Twentieth st., near Michigan ave.

Truck went into service October, 1833. Turn table aerial truck, built by the LaFrance Engine Co., Elmira, N. Y. Length of main ladder when extended, 86 feet. Carries the following apparatus: One 45 foot extension ladder, one 35-foot ladder, one 30-foot, one 20-foot, one 18-foot ladder, one 16-foot ladder, one 14-foot and one 12-foot roof ladder, and one 12-foot extension ladder, and set of Pompler ladders with belts, 25 feet 3-inch hose with slamese and pipe holder, four Holloway hand fire extinguishers, one pair electric wire cutters, one life net. Weight when ready for service, 10,000 pounds; drawn by three horses. Company organized September, 1884. House erected 1884.

NAME.	Badge.	Position,	Residence.
Higby, W		Captain	54 National ave.
Creegan, George H	341	Lieutenant	500 Twenty-fifth st.
Breen, D	342	Ladderman	56 Lawton ave.
Vreeland, D. C	343	Ladderman	114 Newark st.
Cronin, B	844	Ladderman	462 Sixteenth st.
Frank, J. J	845	Ladderman	257 Ash st.
Votruba, Joseph J	346	Ladderman	561 Eighteenth st.
Hayek, W. J	347	Ladderman	443 Fifteenth st.
Osborne, D. A	348	Ladderman	32 Williams ave.
McGann, B. F	349	Driver	567 Sixteenth st.
Benner, W. T	349A	Cadet	904 Michigan ave.
Primeau, G. H	w	Watchman	27 Chipman st.

LADDER COMPANY No. 5.

Location, corner Russell and Erskine streets.

Truck went into service January, 1898. Turn table aerial truck, built by the LaFrance Engine Co., Elmira, N. Y. Length of main ladder when extended, 65 feet, Carries the following apparatus: One 45-foot extension ladder, one 35-foot, one 20-foot, one 18-foot, one 16-foot, one 12-foot roof ladder, one 10-foot and one 16-foot extension ladder, 25 feet of 3-inch hose with two-way slamese and pipe holder, four Babcock hand fire extinguishers and one pair electric wire cutters, one life net. Weight when ready for service, 9,000 pounds; drawn by three horses. Company organized January, 1889. House erected 1888.

NAME.	Badge.	Position.	Residence.
Donnadeau, F. M	350	Captain	68 Maple st.
Clements, J. L	851	Lieutenant	627 Jos. Campau ave.
Merz, F	852	Ladderman	169 Field ave.
Huebner, H	353	Ladderman	480 Clinton st.
Featherston, J	354	Ladderman	300 Adelaide st.
Lauth, J. C	355	Ladderman	73 Charlevoix st.
Weingarden, Moses	356	Ladderman	342 Watson st.
Hall, E. S	357	Ladderman	239 Rowena st.
McTavish, W. J	358	Laddermen	702 Russell st.
Neidermiller, F. C	359	Truck driver	297 Brewster st.
Roth, E	359A	Cadet	740 Chene st.
Henrion, J. B	605	Supply driver	355 High st. e.
	w	Watchman	

LADDER COMPANY No. 6.

Location, corner Elmwood ave. and Fort st

Truck went into service January, 1894. Turn table aerial truck, built by the LaFrance Engine Co., Elmira, N. Y. Length of main ladder when extended, 86 feet. Carries the following apparatus: One 45-foot extension ladder, one ladder 30 feet, one 10 feet, one 18 feet, one 16 feet, one 14 feet and one 12 foot roof ladder, one 12-foot extension ladder, one set of Pompler ladders with belts, 25 feet 3-inch hose with slamese and pipe holder; four Babcock hand fire extinguishers, one pair electric wire cutters, one life net. Weight when ready for service, 10,311 pounds; drawn by three horses. Company organized February, 1889. House erected 1878.

NAME.	Badge.	Position.	Residence.
Quirk, John E	360	Captain	23 Kercheval ave.
Lannan, W. H	361	Lieutenant	151 Baldwin ave.
McCarthy, Michael J	362	Ladderman	308 Concord ave.
Williams, J	363	Ladderman	995 Thirteenth st.
Scheibel, T. J	364	Ladderman	286 Macomb st.
Duchane, W. F	365	Ladderman	159 Harvey ave.
Groesbeck, A	366	Laddermen	395 Fort st. e.
Votruba, F.J	367	Ladderman	482 Eighteenth st.
Boyd, A. R	368	Ladderman	123 Mullett st.
McClellan, E. D	369	Truck driver	252 Mt. Elliott ave.
Matyn, R. C	369A	Cadet	972 McDougall ave.
Schmitt, F	w	Watchman	308 Antietam st.

LADDER COMPANY No. 7.

Location, cor. Cass ave. and Amsterdam st.

Truck went into service September, 1888. Turn-table aerial truck, built by the Fire Extinguisher Manufacturing Co., Chicago, Ill. Carries the following apparatus: One extension ladder 65 foot, one ladder 35 foot, one 20 foot, one 16 foot, one 14 foot, two 12 foot, one 9 foot, one 12-foot extension ladder and one Pompier ladder outfit, four Babcock hand fire extinguishers and one pair electric wire cutters, one life net. Weight when ready for service, 7.549 pounds; drawn by three horses. Company organized June, 1898. House erected 1898.

NAME.	Badge.	Position.	Residence.
O'Brien, W.C	370	Captain	712 Sixth st.
Hanton, Thomas	371	Lieutenant	1132 Fourth ave.
Nicholson, W. E	372	Ladderman	626 Lincoln ave.
Reamer, F. C	273	Ladderman	689 Seventeenth st.
DeLargy, H. J	374	Ladderman	205 Milwaukee ave. e.
Krumholz, J. J	375	Ladderman	167 Brady st.
Yungkans, Frederick	876	Ladderman	99 Baltimore ave. e.
Daines, E	877	Ladderman	184 Baltimore ave.w.
Bronte, J. M	378	Ladderman	37 Milwaukee ave. e.
McGahan, Edward	379	Truck driver	155 Milwaukee ave.e.
Sullivan, J. P	379A	Cadet	147 Calumet ave.
Gressler, L	608	Supply driver	47 Illinois st.
	w	Watchman	

LADDER COMPANY No. 8.

Location, corner Dix and Vinewood avenues.

Location, corner Dix and Vinewood avenues.

Truck went into service August, 1898. Turn table aerial truck, built by the LaFrance Engine Co., Elmira, N.Y. Length of main ladder when extended, & feet. Carries the following apparatus: one 45 foot extension ladder, one 30 foot ladder, one 25 foot, one 18 foot ladder, one 16 foot ladder, one 12 foot roof ladder, and one 16 foot extension ladder, one life net, 50 feet 3-inch hose with two-way slamese and pipe holder, four Babcock hand fire extinguishers and one pair electric wire cutters. Weight when ready for service, 8,720 pounds; drawn by three horses. In connection with this company there is run a single tank 100 gallons, four-wheeled Champion Chemical Fire Extinguisher Engine. Equipment of 250 feet of hose, one 16-foot extension ladder and one hand fire extinguisher. one life net. Went into service October 1, 1891. Weight when ready for service. 3,850 pounds; drawn by two horses. Company organized June, 1893. House erected 1893. erected 1898.

NAME.	Badge.	Position.	Residence.
Callahan, M. Sullivan, T. J. Wilkins, William E. Harcourt, M. Hockaday, J. Newell, G. L. Thayer, J. J.	380 381	Captain. Lieutenant Ladderman Ladderman Ladderman Ladderman Ladderman Ladderman Tuck driver. Chemical driver.	578 Boulevard w. 501 Twenty-fifth st. 578 Lansing ave. 117 Twenty-second st. 568 Hubbard ave. 398 Vinewood ave. 618 Hubbard ave. 585 Boulevard w. 232 Twenty-third st. 554 Hubbard ave.
Laing, A	389A W	Cadet	61 Michigan ave. 631 Baker st.

LADDER COMPANY No. 9.

Location, corner Grand River ave. and Sixteenth street.

Truck went into service October, 1896. Turn-table aeriel truck, built by the Gleason & Bailey Manufacturing Co., Seneca Falls, N. Y. Length of mair ladder when extended, 60 feet. Carries the following apparatus: One extension ladder, 45 feet, one ladder 30 feet, two ladders 25 feet, one 20-foot, one 16-foot extension ladder, one 14-foot roof ladder, one 12-foot fly for main extension ladder, one Pompier ladder outfit, 25 feet 34-inch hose with three-way Slamese and pipe holder, one pair electric wire cutters, one life net, one wire basket fire escape. Weight when ready for service, 9,020 pounds; drawn by three horses. Company organized January, 1894. House erected 1893.

NAME.	Badge.	Position.	Residence.
Shea, James	390	Captain	480 Wabash ave.
Moriarty, Michael E	391	Lieutenant	623 Wabash ave.
Reibling, C.E	392	Ladderman	908 Wabash ave.
Broderick, James C. 2d	393	Ladderman	488 Twelfth st.
Chapoton, F. C	394	Ladderman	911 Fifteenth st.
Little, Louis	395	Ladderman	729 Williams ave.
Witmer, O. L	396	Ladderman	810 Wabash ave.
Hermance, R. C	397	Ladderman	1168 Sixteenth st.
Collins, F	398	Ladderman	573 Wabash ave.
Kenney, Cornelius	399	Driver	1184 Sixteenth st.
Dibble, D. B	399a	Cadet	1005 Grand River ave.
Higgins, C	w	Watchman	897 Wabash ave.

LADDER COMPANY No. 10.

Location, corner Mack and Sheridan avenues.

Truck went into service September, 1888. Built by Fire Extinguisher Manufacturing Co., Chicago, Ill. Carries the following apparatus: One 55-foot Bangor extension ladder, one 30-foot ladder, one 25-foot, one 23 foot, one 17-foot roof ladder, one 14-foot roof ladder, one 16-foot and one 12-foot extension ladder, 25 feet 3-inch hose with two-way slamese and pipe holder, four Babcock hand fire extinguishers and one pair electric wire cutters. Weight when ready for service, 5,255 pounds; drawn by two horses. In connection with this company there is run a double tank, 160 gallons, four wheeled Babcock Fire Extinguisher. Went into service October 1st, 1876. Weight when ready for service, 5,765 pounds; drawn by two horses. Company organized May, 1898. House erected 1897.

NAME.	Badge	Position.	Residence.
Hoeninghausen, A	300	Captain	112 Mitchell ave.
Finck, A. J	801	Lieutenant	228 Baldwin ave.
Goebel, Christian	802	Ladderman	913 Townsend ave
Knowles, G. B	903	Ladderman	391 Antietam st.
Boehm, Emil	304	Ladderman	717 Concord ave.
Gies, John B	305	Ladderman	1094 Fleld ave.
Sims, S. C	306	Ladderman	72 Jones st.
Seibert, E. E	307	Ladderman	178 Lawton ave.
Peek, W. M	308	Truck driver	1008 Van Dyke ave.
Clark, Wm	309	Chemical driver	821 Sheridan ave.
Malloy, M	3094	Cadet	288 Holcomb ave.
Walker, G. O	w	Watchman	756 Bellevue ave.

HOSE COMPANY No. 1.

Location, corner Wayne and Larned streets.

Combination Hose Wagon and Chemical Engine. Went into service August, 1893. Built by the Fire Extinguisher Manufacturing Co., Chicago, Ill. Carries 1,000 feet of 3-inch hose, and is run in connection with the Fire Boat and pipe line, also a single 80-gallon tank Fire Extinguisher. Equipment: 250 feet rubber hose, 2 hand fire extinguishers. Weight when ready for service, 7,550 pounds; drawn by two horses. Company organized October, 1876. House erected, 1889.

NAME.	Badge.	Position.	Residence.
Moore, C. H	500	Lieutenant	476 Sixteenth st.
Moore, C. H	501 502	Pipeman	185 Thirteenth st. 261 Watson st.
Arnold, Fred C	503	Driver	387 Michigan ave.

HOSE COMPANY No. 2.

Location, Hastings street, between Larned and Congress sts.

Combination Hose Wagen and Chemical Engine. Went into service November, 1900. Equipment: 300 feet 1 inch rubber hose, and two hand fire extinguishers. Carries 1,500 feet of 3-inch hose, also 50 gallon tank fire extinguisher, and is run in connection with fire boat and pipe line. Weight when ready for service, 8,675 pounds; drawn by three horses. Company organized July, 1886. House erected 1874.

NAME.	Badge.	Position.	Residence.
Gilmore, J	504 505 506 507 W	Lieutenant	385 Porter st. 293 Antietam st. 480 Clinton ave. 339 Abbott st.

HOSE COMPANY No. 3.

Location, corner Elmwood ave. and Fort st.

Combination Hose Wagon and Chemical Engine. Went into service January, 1883. Equipment: 250 feet 1 inch rubber hose, and two hand fire extinguishers Carries 1,000 feet of 3-inch hose, also 50 gallon tank fire extinguisher, and is run in connection with fire boat and pipe line. Weight when ready for service, 6,450 pounds: drawn by two horses. Company organized June, 1901. House erected 1873.

NAME.	Badge.	Position.	Residence.
Hopkins, J. W	508	Lieutenant	699 Macomb st.
Pousho, J. A	509	Pipeman	281 Cleveland st.
Heuft, A. F	510	Pipeman	699 Clinton ave.
Hopkins, J. W	511	Driver	316 Maple st.

CHEMICAL ENGINE COMPANY No. 1.

Location, Twentieth st., near Michigan ave.

Double tank, 160 gallons, four-wheeled Champion Chemical Fire Extinguisher Engine. Equipment of 250 feet rubber hose and one hand fire extinguisher. Went into service June 1, 1893. Weight when ready for service, 5,615 pounds; drawn by two horses. Company organized October, 1891.

NAME.	Badge.	Position.	Residence.
McMichael, Charles	512	Lieutenant	102 Seventeenth st.
Hough, George S	518	Pipeman	533 Sixteenth st.
Seibert, O	514	Pipeman	173 Lawton ave.
Kenyon, J. D	515	Chemical driver	348 Eighteenth st.
Downey, J. R	604	Supply driver	988 Scotten ave.

WATER TOWER COMPANY No. 1.

Location, Nos. 189 and 191 Larned street east.

Built by the Fire Extinguisher Manufacturing Co. of Chicago, Ill. Went into service July, 1893. The tower is raised by crank and screw, and stands upon a turn-table. The telescoping fly or end section is drawn up to its required height by means of crank and cable. It can be extended to a height of 75 feet. To the lower end of fly there is always attached a length of 3½-inch hose, and to the lower end of the hose a four-way slamese connection. Weight when ready for service, 12,250 pounds; drawn by three horses. Company organized July, 1893. House erected 1883.

NAME.	Badge.	Position.	Residence.
Schnorr, Edward J	516	Lieutenant	268 Elizabeth st.e.
Reeves, J. M	517	Pipeman	328 Monroe ave.
Koykendall, F			
Steele, A. L	519	Pipeman	448 Monroe ave.
Hess, C	520	Pipeman	172 Macomb st.
Peters, H	521	Water Tower driver	276 Congress st. e.
Kline, Charles R	602	Supply driver	259 Rivard st.

CENTRAL OFFICE FIRE ALARM TELEGRAPH.

Nos. 191 to 195 Larned street east.

Building is three stories high. First floor is used by Water Tower Co. No. 1; second floor as operating room; third floor as sleeping room. Building equipped with necessary machinery for maintaining fire alarm system. House erected 1893.

NAME.	Badge	Position.	Residence.
Gardiner, William J		Superintendent	195 Larned st. e.
Gascoigne, Louis	١	Ass'tSuperinten't	165 Parker ave.
Herman, William	1	Ch. opr. & inspec.	551 Stanley ave.
Stone, Edward W	2	Operator	225 Wabash ave.
Newton, George	8	Operator	701 Macomb st.
Stockwell, Walter C	4	Operator	938 Warren ave. e.
Wyncoop, Frederick C	5	Teleph. operator	151 Twelfth st.
Gorman, W	6	Teleph. operator	357 Larned st. e.
Tuke, A. G	7	Teleph. operator	946 Seventeenth st.
McLaughlin, Frank	8	Lineman	629 LaSalle ave.
Scott, John	9	Driver	268 Porter st.
Beatty, Whitney B	09	Groom	526 Fifth st.

WATER DEPARTMENT.

NAME.	Badge.	Position.	Residence.
Curren, Edward	551 552	Hydrantman	239 Fifth st. 1017 Wabash ave. 33 Church st.
Carlow, W		Driver	727 Brooklyn ave.

HEADQUARTERS.

NAME.	Position.	Residence.	
Baxter, William H McDuff Joh Brand. Charles W Brabyn, Harry VanCoeverden, J.H Moiles, H. T Sheldon, H. A Creedon, Dennis		371 Third ave. 325 Canfield ave. w 278 Maple st. 58 Elizabeth st, w. 243 Canfield ave.w. 171 Sixteenth st.	

SUPPLY AND TRAINING STABLES.

Located at cor. Erskine and Russell sts.

Buildings are brick, and contain box and open stalls for 25 horses, and a training room for breaking new horses. It has a cinder track 14 feet in width around the lot, forming a training course of 700 feet in length.

NAME.	Badge.	Position.	Residence.
Cooney, Martin	400	Superintendent	820 Leland st.
McLaughlin, John		Ass't Superintendent.	420 St. Aubin ave.
Crevier, E. C		Veterinary surgeon	36 Howard st.
Gilmore, J	401	Driver	621 St. Antoine st.
Rosey, F	402	Groom	220 Antietam st.
Minor, H	403	Groom	601 St, Antoine st.
Nolan, J	404	Groom	672 Riopelle st.
Canaan, W	405	Groom	530 Riopelle st.
Mitchell, J. E	406	Groom	605 St. Antoine st.

RESERVE APPARATUS.

Engine A—Second size Amoskeag, formerly the self-propeller. Went into service January, 1874. Two steam cylinders, 7% inches in diameter and 8 inches stroke. Two double action piston pumps, 4½ inches in diameter and 8 inches stroke. Capacity, 600 gallons of water per minute. Weight when ready for service, 8,300 pounds. Location, Water Tower House No. 1.

Engine B—Second size Amoskeag, formerly Engine No. 4. Went into service May, 1876. Two steam cylinders 6% inches in diameter and 8 inches stroke. Two double action piston pumps, 4% inches in diameter and 8 inches stroke. Capacity, 500 gallons of water per minute. Weight when ready for service, 7,360 pounds. Location, Ladder House No. 4.

Engine C—Second size Amoskeag Engine, formerly Engine No. 10, Went into service February, 1880. Two steam cylinders, 7% inches in diameter and 8 inches stroke. Two double action piston pumps, 4½ inches in diameter and 8 inches stroke. Capacity, 600 gallons of water per minute. Weight when ready for service, 7,940 pounds. Location, Engine House No. 8.

Engine D—Fourth size Silsby, formerly Engine No. 12. Went into service December, 1886. Capacity, 500 gallons of water per minute. Weight when ready for service, 6,450 pounds. Location, Engine House No. 6.

Hose Carriage A—Located at Engine House No. 6. Equipment, 1,000 feet cotton hose. Weight when ready for service, 3,200 pounds.

Hose Carriage B—Located at Ladder House No. 4. Weight 1,920 pounds.

Hose Wagon A—Located at Engine Honse No. 8.

Ladder Truck A—Located at Engine House No. 6. Fully equipped. Weight, 6,860 pounds.

Ladder Truck B—Located at Engine House No. 6. Fully equipped. Weight, 7,070 pounds.

Ladder Truck C—Located at Water Tower House No. 1. Fully equipped. Weight, 7,940 pounds.

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Chemical Engine—Located at Water Tower House No. 1. Double tank, 160 gallons, four-wheeled Champion Chemical Fire Extinguisher Machine. Went into service October, 1886. Equipment, 250 feet rubber hose and one hand fire extinguisher. Weight when ready for service, 5,725 pounds. Drawn by two horses.

Chemical Engine—Located at Water Tower House No. 1. Double tank, 160 gallons, four-wheel Babcock Chemical Fire Extinguisher Engine. Weight when ready for service, 5,700 pounds; drawn by two horses. Went into service December 7, 1876. Equipment, 250 feet rubber hose and one hand fire extinguisher.

Chemical Engine—Located at Engine House No. 6. Single tank, 80 gallons, two-wheel Babcock Fire Extinguisher Machine. Went into service June, 1882. Equipment, 250 feet rubber hose, and one hand fire extinguisher. Weight, when ready for service, 3,800 pounds; drawn by one horse.

Coal Wagon—Located at Water Tower House No. 1. Weight 10,350 pounds; drawn by three horses.

LOCATION OF EXTRA HOUSE.

Storehouse "A"—On Orchard street, between Fifth and Sixth sts.

SUPPLEMENT.

Commissioners of the Detroit Fire Department.

The Fire Commission was organized April 1, 1867, and was composed of the following members:

William Duncan.

T. H. Hinchman.

J. W. Sutton.

L. H. Cobb.

1868.

William Duncan.

T. H. Hinchman.

J. W. Sutton.

L. H. Cobb.

1869.

William Duncan.

T. H. Hinchman.

J. W. Sutton.

L. H. Cobb.

1870.

William Duncan.

T. H. Hinchman.

*Benjamin Vernor

L. H. Cobb.

*Commissioner Sutton's term expired April 1, and Benjamin Vernor appointed to fill vacancy.

1871.

William Duncan.

T. H. Hinchman.

Benjamin Vernor.

L. H. Cobb.

1872.

Benjamin Vernor.

T. H. Hinchman.

*Jerome Croul.

L. H. Cobb.

*Commissioner Duncan's term expired April 1, and Jerome Croul appointed to fill vacancy.

1873.

Benjamin Vernor.

T. H. Hinchman.

Jerome Croul.

*Joseph Godfrey.

*Commissioner Cobb's term expired April 1, and Jos. Godfrey appointed to fill vacancy.

Benjamin Vernor.

T. H. Hinchman.

Jerome Croul.

Joseph Godfrey.

1875.

Benjamin Vernor.

T. H. Hinchman.

Jerome Croul.

Joseph Godfrey.

*Peter Henkel.

*Commissioner Godfrey died January 7th, 1875, and Peter Henkel appointed to fill vacancy.

1876.

Benjamin Vernor.

T. H. Hinchman.

Jerome Croul.

Peter Henkel.

*L. H. Cobb.

*Commissioner Hinchman resigned October 25th, 1876, and L. H. Cobb was appointed to fill vacancy.

1877.

Benjamin Vernor.

Peter Henkel.

Jerome Croul.

L. H. Cobb.

1878.

Benjamin Vernor.

Peter Henkel.

Jerome Croul.

L. H. Cobb.

1879.

Benjamin Vernor.

Peter Henkel.

Jerome Croul.

*T. H. Hinchman.

*Commissioner Cobb's term expired April 1, 1879, and T. H Hinchman was appointed to fill vacancy.

1880.

Benjamin Vernor.

Peter Henkel.

Jerome Croul.

T. H. Hinchman.

*Rufus W. Gillett.

*Commissioner Hinchman resigned November 3, 1880, and Rufus W. Gillett was appointed to fill vacancy.

1881.

Benjamin Vernor.

Peter Henkel.

Jerome Croul.

Rufus W. Gillett.

Benjamin Vernor,

Peter Henkel. Rufus W. Gillett.

Jerome Croul.

1883.

Benjamin Vernor.
Jerome Croul.

Peter Henkel.

Rufus W. Gillett.

1884.

Benjamin Vernor. Jerome Croul. Peter Henkel. Rufus W. Gillett.

1885.

Benjamin Vernor.

Peter Henkel.

Rufus W. Gillett.

1886.

Jerome Croul.

Jerome Croul.

Peter Henkel.

Rufus W. Gillett.

*William J. Stapleton.

*Commissioner Vernor's term expired April 1, 1886, and William J. Stapleton was appointed to fill vacancy.

1887.

Jerome Croul.

Peter Henkel.

Rufus W. Gillett.

William J. Stapleton.

1888.

Peter Henkel.

Rufus W. Gillett.

William J. Stapleton.

*Bruce Goodfellow.

*Commissioner Croul's term expired April 1, 1888, and Bruce Goodfellow was appointed to fill vacancy.

1889.

Rufus W. Gillett.

William J. Stapleton.

Bruce Goodfellow. *Marshall H. Godfrey.

*Commissioner Henkel's term expired April 1st, 1889, and

Marshall H. Godfrey was appointed to fill vacancy.

1890.

Rufus W. Gillett.

Bruce Goodfellow.

Marshall H. Godfrey.

*Oren Scotten.

*Fred T. Moran.

*Commissioner Gillett resigned February 11th, 1890, and Fred T. Moran was appointed to fill vacancy. Commissioner Stapleton's term expired April 1, 1890, and Oren Scotten was appointed to fill vacancy.

Bruce Goodfellow.

Marshall H. Godfrey.

Oren Scotten.

Fred T. Moran.

1892.

Bruce Goodfellow.

Marshall H. Godfrey.

Oren Scotten.

Fred T. Moran.

1893.

Bruce Goodfellow.

Marshall H. Godfrey.

Fred. T. Moran.

*William Carson.

*Commissioner Godfrey's term expired April 1st, 1893, and William Carson was appointed to fill vacancy.

1894.

Bruce Goodfellow.

Oren Scotten.

Fred T. Moran.

William Carson.

1895.

Bruce Goodfellow.

William Carson.

*Edwin O. Krentler.

*Charles Flowers.

*Commissioner Scotten's term expired April 1, 1894, and Edwin O. Krentler was appointed to fill vacancy.

*Commissioner Moran's term expired April 1, 1895, and Charles Flowers was appointed to fill the vacancy.

1896.

William Carson.

Edwin O. Krentler.

Charles Flowers.

*Edward H. Parker.

*Commissioner Goodfellow's term expired April 1, 1896, and Edward H. Parker was appointed to fill the vacancy.

1897.

Edwin O. Krentler.

Charles Flowers.

Edward H. Parker.

*John Lennane.

*Commissioner Carson's term expired April 1, 1897, and John Lennane was appointed to till vacancy.

1898.

Charles Flowers.

Edward H. Parker.

John Lennane.

*Fred T. Moran.

*Commissioner Krentler's term expired April 1, 1898, and Fred T. Moran was appointed to fill vacancy.

Edward H. Parker.

John Lennane.

Fred T. Moran.

*Oren Scotten.

*Commissioner Flowers' term expired April 1, 1899, and Oren Scotten was appointed to fill vacancy.

1900.

John Lennane.

Fred T. Moran.

Oren Scotten.

*Frank H. Croul.

*Commissioner Parker's term expired April 1, 1900, and Frank H. Croui was appointed to fill vacancy.

1901.

Fred T. Moran.

Oren Scotten.

Frank H. Croul.

John Lennane.

THIRTY-SIXTH ANNUAL REPORT

COMMISSIONER

OF THE

METROPOLITAN POLICE

TO THE

Common Council of the City of Detroit

JULY 1, 1901



DETROIT: THE THOS. SMITH PRESS 1901.

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Office of the Metropolitan Police Commissioner, Detroit, Mich., July 1, 1901.

To the Honorable the Common Council of the City of Detroit:

Gentlemen—In compliance with Section 27, Chapter 22, or Section 567 of the City Charter, I have the honor to submit herewith the thirty-sixth annual report, showing the condition of the Metropolitan Police Department of the City of Detroit at the close of the fiscal year ending June 30th, 1901.

In submitting this report I desire to call attention to the fact that much credit for the excellent showing made is due my predecessors, the honorable Board of Police Commissioners, Messrs. Fowle, Phelps, Stanton and Warren. I cannot speak too highly of the excellent condition this department was in when its affairs were turned over to my charge, and I desire to place the credit for the same where it belongs.

However, with the able assistance of your honorable body, I feel confident that good results will be obtained in the future, and it will ever be my aim to conduct the affairs of the department to the best interests of the city.

Your obedient servant,

FRANK C. ANDREWS,

Commissioner of Police.

SECRETARY'S REPORT.

Detroit, Mich., July 1st, 1901.

Hon. Frank C. Andrews, Commissioner of Metropolitan Police:

Sir:—I herewith respectfully submit the thirty-sixth annual report, showing the condition of the several funds and accounts of this office for the fiscal year ending June 30th, 1901.

Accompanying you will also find my report as property clerk of the Police Department and as city license collector.

Respectfully,

J. EDWARD DUPONT, Secretary.

METROPOLITAN POLICE COMMISSIONER

In Account with the Metropolitan Police Fund. $\mbox{FINANCIAL STATEMENT}. \label{finalcond}$

·			
1901		1901	
July 1 To balance of this		July 1 Paid the regular	
Fund, July 1, 1990, as		salaries as detailed in	
shown on page 13 of	#000 0F0 00	1	\$ 506,5 56 46
last report	\$292,859 80	General expense ac-	
Estimate from July 1, 1900 to July 1, 1901	554,850 00	count as detailed on page 7	38,877 41
Received rebates, Meals	96 76	Owing to the rebuilding of the Grand River Avenue station this amount has been charged to the Met- ropolitan Police fund	
Received from sale of the		to close the old ac-	2,871 30
following:		!	2,071 30
Equipments,		REAL ESTATE:	
(helmets) \$498.05 Horses 1,679.50		Belle Isle station and	
Old harnesses 85.15		barn	12,417 25
Old iron 2.60		Chene station and barn	18,825 98
Buggy and road	•	Elmwood station and	10 400 00
wagen 65.10 Manure 4.00		barn	16,402 82
	2,334 40	Fremont station and barn	12,033 32
Received from Patrolmen		Grand River station	12,000 02
for the following lost articles:		and barn	23,188 06
Revolver\$10 82		Hunt station	31,207 19
Badges 2.50	13 32	Harbor Master bldg	1.159 84
Received for material and	10 02	Headquarters bldg	66,127 87
labor on wiring	20 65	Headquarters barn	28,565 13
Received from sundry	20 00		20,000 10
parties for care of pri-]	Scotten station and barn	15,280 98
vate signal boxes	223 43	Trumbull station	21,608 60
Collections for extra po-		Vinewood station and	21,000 00
lice services :		barn	10,970 94
Testing scales, D. L. N. R. R.\$20.00		Woodbridge station.	12,000 76
Bank patrol . 3,800.00	l	Hamlin station and	12,000 10
Detroit Savings		barn	19,371 99
Bank 900.00	Į.	Cash on hand	394 93
German Amer-	ļ	Cash in hands of City	
ican Bank 81 50	4,801 50	Treasurer	17,339 03
		-[10000
Total	\$855,199 86	Total	\$855,199 86

CASH ACCOUNT.

1901 Dr.		Cr.	[
July 1 Cash on hand Secretary's office July 1, 1900	\$ 393 68	Paid salaries as follows:	
Cash balance with City Treasurer, July 1, 1900		July 31\$42,140.20 Aug. 31 42,462.74 Sept. 29 42,327.33	
To sundry receipts for extra services rendered, relates and the sale of		Oct. 31 42,250.56 Nov. 30 42,244.11	
old property, etc., as detailed on page 9	7,490 06	Jan. 31 42,150.07 Feb. 28 41,762.09	
To cash received from the City in full of 1900 ap- propriation	554,850 00	Mar. 30 41,888.99 Apr. 30 42,011.71 May 15 21,105.24	
	<i>777</i> 2 ,000 00	May 31 21,387.32 June 15 20,801.11 June 30 21,735.75	
		June 10 21,100.10	\$506,556 46
		General expense account as detailed on page 7	38,877 41
		Paid on Grand River station and barn	21,837 06
		Paid on Trumbull station	2,142 98
		Cash on hand	394 9 3
		Cash in hands of City Treasurer	17,339 03
	\$ 587,147 87		\$587,147 87

EXPENSE ACCOUNT.

Books, stationery, printing\$	745 90
Bicycle repairs	541 28
Barn supplies	486 59
Equipments-Belts, batons, badges, bicycles,	
wreaths, numbers, handcuffs, revolvers and re-	
pairs thereto	1,549 62
Fuel	2,923 73
Furniture, fixtures, carpets, beds and bedding	797 80
Horses	2,871 60
Hay, grain, horsebedding	4,712 91
Harnesses, saddles and repairs thereto	534 37
Horseshoeing	1,484 26
Ice and sprinkling	145 50
Light	1,400 45
Minor supplies :	608 79
Meals furnished prisoners and witnesses and lodging	
tramps	1,161 80
Medical services and supplies for prisoners and	
horses	572 51
Newspapers—Advertising, directories	445 0 8
Postage	100 00
Permanent improvements—Vaults in Headquarter's	
building, alterations at Fremont Stations, shed	
at Chene Station, fireplace at Central Station	4,177 6 5
Repairs—Painting, lumber, hardware, sand, lime,	
cement, brick for the several stations	3,994 56
Rent for temporary quarters Grand River Station	
and patrol wagon barn, also rest barn for Head-	
quarter's night patrol horses	255 00
Rent for telephones	86 25
Secret Service—Criminal investigations and contin-	
gencies	1,895 19
Signal Service supplies and extensions	5.234 19
Street car tickets	850 oo
Telegrams	119 <i>7</i> 8
Wagons, buggies and repairs thereto	967 76
Washing and cleaning	214 84
	ተ- 0

The credit balance of the Metropolitan Police Fund, and constituting the assets of the Department at this date, is composed as follows:

ASSETS.

Real estate\$	289,160	73
Cash on hand	394	93
Cash in hands of City Treasurer	17,339	03
		\$306,894 69

BALANCE SHEET.

RECEIPTS.

Cash balance in hands City Treasurer, July 1, 1900	\$ 24,414	13		
Cash on hand	393	68		
Appropriation for 1900	554,850	00		
-			\$579,657	8 r
Lost department revolver	\$ 10	82		
Lost police badges	2	50		
Rebates on helts, wreaths, numbers and lost time	<i>7</i> 6	65		
Equipments—Helmets	498	05		
Horses	1.679	50		
Old harness	85	15		
Old iron	2	60		
Meals	5	40		
Telegrams	14	71		
Material and labor on wiring	20	65		
Sundry parties for care of private signal boxes	223	43		
Buggy and road wagon	65	10		
Manure	4	00		
Testing scales (D., L. N. R. R.)	20	00		
Bank patrol	38	00		
Detroit Savings Bank Special	900	00		
German-American Bank Special	81	50		
· _			\$ 7.490	об
		-	\$587,147	<u></u> 87
EXPENDITURES				
Th. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* -C			
Pay roll and monthly bills		-		
Cash balance in hands City Treasurer June 30, 1901				
Cash on hand	394		φ-O	0-
· -			\$587,147	87

SUPERANNUATED POLICE FUND.

FINANCIAL STATEMENT.

RECEIPTS.

Cash balance in hands City Treasurer July 1, 1900.\$	3,254 86	
Appropriation from July 1, 1900, to July 1, 1901	1,100 00	
Received from sale of unclaimed property	199 68	
Received from destroyed slot machines	311 50	
Received from sale of scrap iron from broken slot		
machine	2 90	
Received fines from policemen	395 0 0	
Received for 55 appointments of special policemen	275 00	
Received for one reward	30 00	
-		\$5,568 94
DISBURSEMENTS.		\$5,568 94
DISBURSEMENTS. Paid the regular salaries to the retired officers as		\$5,568 94
	4,260 64	\$5.568 94
Paid the regular salaries to the retired officers as	4,260 64 1 60	\$5,568 94
Paid the regular salaries to the retired officers as detailed in the cash account on page 11\$	• • • • • • • • • • • • • • • • • • • •	\$5,568 94
Paid the regular salaries to the retired officers as detailed in the cash account on page 11\$ Paid claim of Anthony Kracht	1 6o	\$5.568 94 \$5.568 94

CASH WITH CITY TREASURER ACCOUNT RETIRED OFFICERS SUPERANNUATED POLICE FUND.

		1900			
Cash balance in		July 31, Paid	7 retired	officers	\$304 15
hands City Treas- urer, July 1, 1900	£ 3.254 86	Aug. 31, Paid	7 retired	officers	304 15
		Sept. 30, Paid	7 retired	officers	304 15
To sundry receipts as detailed in the		Oct. 31, Paid	7 retired	officers	304 15
Superannuated		Nov. 30, Paid	7 retired	officers	304 15
Fund on page 10	1,214 08	Dec. 31, Paid	7 retired	officers	304 15
To cash received		1	901		
from City in full		Jan. 31, Paid	7 retired	officers	304 15
of 1900 appropri-		Feb. 28, Paid			304 15
ation	1,100 00	Mar. 30, Paid			462 48
		Apr. 30, Paid	11 retired	officers	462 48
		May 15, Paid	11 retired	officers	231 22
		May 31, Paid	11 retired	officers	231 26
		June 15, Paid	11 retired	officers	231 22
		June 31, Paid	11 retired	officers	208 78
		Paid Anthony	Kracht	being	4,260 64
		amount takes	n from his	nn by a	
		prisoner and	deposited	Dec. 9,	
		1899 to this f	•		
		of auction sale	of unclain	ned and	
		stolen propert	t y	• • • • • • •	1 60
		Cash in hands of	f City Trea	surer	1,306 70
Total	\$5,568 94	Total	•••••	•••••	\$ 5,568 94

Office of City Accountant,

July 1st, 1901.

To Hon. Frank C. Andrews, Commissioner of Police:

Dear Sir:—I have this day completed the examination of the books pertaining to your department, including vouchers and cash for the year ending June 30th, 1901. I find the same correct, and their balances agree with those of the City Treasurer.

The books are very neat and well kept. The system is very simple. Great praise is due the outgoing Secretary and his assistant for the very able manner in which the books are kept.

Very respectfully submitted,

DR. FRANCIS J. DUCAT,

City Accountant.

PROPERTY CLERK'S REPORT.

Office of Secretary,
Detroit, Mich., July 1st, 1901.

Hon. Frank C. Andrews, Commissioner of Metropolitan Police:

Sir:—I herewith respectfully submit my report as property clerk of the Metropolitan Police Department for the fiscal year ending June 30th, 1901.

The number of parcels of property handled by me, together with their estimated value, was as follows:

No	of Parcels.	Value	
Number of Parcels on hand. July 1, 1900	241	\$ 168	62
Number of bicycles on hand, July 1, 1900 Number of parcels received, July 1, 1900, to June	11	245	00
30. 1901	2,465	28,127	83
30, 1901	615	14,232	7 5
Total	3.332	\$42,774	20
1900, to June 30, 1901	1,607	\$26,174	98
1900, to June 30, 1901	593	13,621	75
Number of parcels on hand July 1, 1901	1.099	2,121	47
Number of bicycles on hand July 1, 1901	33	856 	
Total	3,332	\$42.774	
Respectfully,			

J. EDWARD DUPONT,

Property Clerk.

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LICENSE COLLECTOR'S REPORT.

Metropolitan Police Department,
Office of the Secretary,
Detroit, Mich., July 1st, 1901.

To the Honorable the Commissioner of Metropolitan Police:

Sir:—I herewith submit a tabulated statement showing the amount of license fees collected by me in my official capacity as city license collector.

The amount of license money collected by me and turned over to the City Treasurer during the year was as follows:

DR.

29	Auctioneers	\$ 216	85
. 28	Ball alleys	132	00
	Bakers		00
45	Billiard tables	220	00
	Dirt wagons		50
	Dogs		Ğ5
8	Ferries	1,360	
	Hacks and express	748	
	Hack drivers		15
	Intelligence offices		
	Newsboys		•••
	Meat shops		
14	Meat peddlers	526	
	Milk depots		
	Pawn brokers		_
	Peddlers		
	Porters and runners		00
	Restaurants		
	Second-hand stores		
	Shows		
	Trucks and drays		
	Theaters		
	Ticket brokers		50
10	Ticket prokers	92	50
		\$15,477	24
	an.	412.4//	34
	CR.		
By a	mount to City Treasurer to July 1st, 1901	.\$15,477	34
		\$15,477	34

Respectfully,

J. EDWARD DUPONT, City License Collector.

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Detroit, Mich., July 1st, 1901.

I hereby certify that J. Edward Dupont, City License Collector, has paid into the city treasury from July 1st, 1900, to June 30th, 1901, the sum of fifteen thousand four hundred seventy-seven and thirty-four one hundredths dollars (\$15,477.34).

WM. B. THOMPSON,
City Treasurer.

Correct:

F. A. BLADES, City Controller.

SUPERINTENDENT'S REPORT.

Honorable Frank C. Andrews, Commissioner of Police:

Sir—I have the honor to herewith submit the 36th annual report of the Metropolitan Police Force of the City of Detroit for the fiscal year ending June 30th, 1901.

Respectfully,

JOHN MARTIN, Superintendent of Police.

COMPOSITION OF FORCE.

The composition of the force July 1, 1901, was as follows:

Superintendent		. 1
Captains		12
Lieutenants		29
Sergeants		33
Patrolmen detailed as Detective Sergeants		17
Patrolmen		400
Doormen		23
. .	-	
Total		515
-		
From the above, special details are made as enumerated	belo	w:
Captains		,
Lieutenants		
Sergeants		
Patrolmen detailed as Detective Sergeants		
Patrolmen		
Doorman		
Dournan	• • • •	1
Total		122
- Viui	• • • •	, 33
Distributed as follows:		
CAPTAINS.		
5		
In charge of Headquarters nights	1	
In charge of Detective Bureau		
In charge of Department horses		
In charge of Weights and Measures		
In Corporation Counsel's Office		
- -		
Total		5

LIEUTENANTS.

Lieutenants of Detectives. In charge of the Recorder's Court detail. In charge of the Police Court detail. In charge of the Ordinance squad. In charge of Truant officers. Acting as Detective. Building Inspector under direction of the Superintendent.	2 1 1 1 1 1 1	
Total	_	8
SERGEANTS.		
Detailed at Police Court. Detailed at Belle Isle Station. Assistant City Sealer. Total	2 I I	4
PATROLMEN.		
Detailed as Detective Sergeants. Sanitary detail Truant officers Detailed at Recorder's Court. Detailed at Police Court. At Headquarters, day. At Headquarters, night. At Water Works Pumping Station. At Municipal Building. Public Library At City Hall (general duty). Dog Pound Keeper. Harbormaster At Palmer Park. On street crossings. On seven patrol wagons, day and night. At Belle Isle Station. Assistant to City Sealer Precinct detectives At Corporation Counsel's office. At Detroit Savings Bank.	10 3 6 2 3 1 1 3 1 2 1 2 2 8 7	
Total Doorman Belle Isle Station		115
Grand total	-	133.

All of the above 115 men are necessarily withdrawn from street patrol duty.

This leaves for street patrol duty, day, night and relief, throughout the city (patrolmen) 302.

The street patrol is divided:

For day duty 85
For night duty163
For relief duty54
201 10101 4409
For station duty:
Captains
Lieutenants
Sergeants
Patrolmen302
Doormen 22
Distributed as follows:
NIGHT DUTY.
Lieutenants
Sergeants
Patroimen
Doormen 10
DAY DUTY.
Captains 7
Lieutenants Id
Sergeants
Patrolmen
Doormen 12
Dooring 12
RELIEF DUTY.
Lieutenants 1
Sergeants
Patrolmen

DISTRIBUTION OF THE FORCE.

The force is apportioned to the Detective Bureau, Central Division, and to the several precincts, as follows:

Detective Bureau
Central Division
Central or First Precinct120
Second Precinct
Third Precinct
Fourth Precinct 56
Fifth Precinct 67
Sixth Precinct 33
Seventh Precinct
Total (Superintendent not included)514

In addition to the force proper, enumerated above, there are employed by the month or year as follows:

Chief Clerk and Stenographer, Superintendent's office, B. G. Chappee	I
Telephone operators in Superintendent's office	3
Clerk in Detective Bureau, Charles F. Martindale	I
Janitor, Headquarters offices	I
Superintendent of Signal Service and Telephone Lines, C. L. Sponen-	
burgh	I
Assistant Superintendent of Signal Service and Telephone Lines	I
Machinist	I
Instrument man	I
Linemen	3
Truckman	I
Operators in Signal office	6
Timekeepers in Signal office	4
Police matrons, at Headquarters	3
	I
Police matrons, at Woodbridge Street Station	3
	I
Hostlers	
Janitor at Hamlin Station	1
Janitress at Signal office and City Sealer's office	I
Driver of Patrol Wagon, Sixth Precinct	I

DETECTIVE BUREAU.

It is composed at this date of	at this date of	his da	this	at	composed	18	Ιt
--------------------------------	-----------------	--------	------	----	----------	----	----

Captain, James McDonnell	
CENTRAL DIVISION.	
The assignment of officers and men to this division at this da is as follows:	te
Captains, E. F. Culver, in charge at Headquarters nights; George Heigho, City Sealer; L. Guyman, in charge of Department horses, and A. J. Rogers, in Corporation Counsel's office	4
Sergeants—J. W. Hayes and A. Schenk, at Police Court; George F. Austin, Assistant City Sealer	3
Patrolmen—	
Sanitary work Truant Officers At Recorder's Court and Council Chamber.	10 3 6
At Police Court	3 3
Dog Pound Keeper Assistant to City Sealer Public Library	1
Harbormaster At Corporation Counsel's office	1 1
. —	_

Reports in detail of the officers in charge of the several bureaus of this division will be found further on, and each one contains information of interest and value.

THE SANITARY DETAIL.

Is composed of:	
Lieutenant—Pierce Hanrahan, in charge	I
Muston, John McClellan, John McDonald, James Smith, John Campbell, Alex. McRae and H. J. Schmeltz	10
Total	11
The items of service are classified in Lieutenant Hanrahan	's

report published herewith.

TRUANT OFFICERS.

This detail is composed of:

Lieutenant—Charles Breault, in charge	I
Patrolmen-J. O. Harris, Harry Gebbett and R. Jordan	3
Total	4

The items of service are classified in Lieutenant Breault's report published herewith.

CENTRAL OR FIRST PRECINCT.

This precinct comprises that part of the city lying between Detroit River and midway between Charlotte and Joy, Charlotte and Peterboro, Edmund and Watson, Brewster and Wilkins, on the north, center line of Hastings on the east and center line of Fourth on the west. There is one principal station—the Central Station—and one sub-station—Woodbridge Street Station. There is one patrol wagon station in this precinct, at Headquarters barn, on East Fort street.

The officers and men of the precinct are distributed as follows:

CENTRAL STATION.

	tenants—Albert C. Boeberitz, Frank A. Newberry and George A.	1
	Wolf	3
	geants—John C. Higgins, August Lampken, C. Schick, John Sprenger and James McNamara	5
	olrien	
	rmen	
•	Total	- 15
	WOODBRIDGE STREET STATION.	
	reants—T. F. Crandell, Charles Swartwood and W. E. England	
	Total	5
	The 103 patrolmen of this precinct are divided:	
For	day duty	38
	night duty	
For	relief duty	5 0
	Of the day patrols special details are required as follows:	
For	one patrol wagon	2
	the City Hall building	
	cial duty at Woodward avenue crossings	
	Total	 [
	Of the night patrols, special details are required as follows:	- •
	one patrol wagonthe City Hall building	
	Headquarters	
	Total	_
	This leaves for street patrol service throughout the Central Precinct:	
	day duty	24
For	night duty	40
For	relief duty	20
	Grand total	84

SECOND PRECINCT.

This precinct comprises that part of the city lying south of Waterloo street; all south of Waterloo street to a line midway between Jos. Campau avenue and Chene street; all east of said line to a line midway between Clinton avenue and Macomb street, and all south of said line to Hastings street, and all between the center line of Hastings street and the easterly city limits, including Belle Isle Park. There is one principal station—the Second Precinct Station, situated on Elmwood avenue, near Champlain street—and one sub-station—Belle Isle Station. There is one patrol wagon station, at the precinct station.

PRECINCT STATION.

The officers and men are distributed as follows:

Captain—William Nolan	I
Lieutenants-P. Hogan and Geo. W. Mills	2
Sergeants—Jos, Pritchard, Geo. Cook and O. H. Davis	3
Patrolmen	49
Doormen	2
Total	 57
BELLE ISLE PARK STATION.	
Sergeant—Michael Coleman	T
Patrolmen	7
Doorman	ī
	_
Total	9
The 56 patrolmen of the precinct are divided as follows:	
For day duty	23
For night duty	, 27
For relief duty	6
	_
Total	56



Of the day patrol special details are required as follows:

For duty at Belle Isle Park	
For duty at Water Works pumping station	
Precinct detectives	
Total10	0
Of the night patrol special details are required as follows:	
For duty at Belle Isle Park	2
For the patrol wagon	2
Total	4
This leaves for street patrol service throughout the precinct	,
not including Belle Isle Park:	
For day mounted patrol duty	3
For day foot patrol duty)
For night duty	
For relief duty	
	_
m	_

THIRD PRECINCT.

This precinct comprises that part of the city lying north of Second Precinct, between the center line of Hastings street and the easterly city limits, with the city limits as the northerly boundary; except between St. Aubin avenue and Hastings street, where the Boulevard is the boundary line. There is one principal station, the Third Precinct Station, corner of Dubois and Hunt streets, and one sub-station, on Chene street and Canfield avenue. There is one patrol wagon station in the precinct, at the sub-station.

The officers and men of the precinct are distributed as follows:

PRECINCT STATION.

	I
	2
Sergeants—C. F. Schnabel, C. B. Andrews and F. W. Smith	3
Patrolmen 3	0
Doormen	2
	_
Total	8
SUB-STATION.	
The state of the s	
Lieutenants—John G. Meyers, W. C. Cohoon	
Sergeants—George W. Phillips, Joseph Skrzycki	
Patrolmen	
Doermen	2
	-
Total 3	2
The 56 patrolmen of the precinct are divided as follows:	
For day duty 18	8
For night duty 2	
For relief duty	0
_	-
Total 50	6
Of the day patrol, special details are required as follows:	
For the patrol wagon	2
Precinct detectives	
For duty at Palmer Park	
-	_
Total	.;
Of the night patrol, special details are required as follows:	
For the patrol wagon	2

This leaves for street patrol service throughout the Third Precinct:

For	ay mounted patrol duty	2
For	ay foot patrol duty I	I
For	ight duty 20	6
For	elief duty	0
	-	_
	otal 4	n

FOURTH PRECINCT.

This precinct comprises that part of the city lying north of a line midway between Charlotte and Joy, Charlotte and Peterboro, Edmund and Watson, Brewster and Wilkins, between the center line of Fourth street and Holden road on the west and Hastings street on the east as far north as the Boulevard, above that point all territory between the easterly and westerly city limits. There is one principal station, the Fourth Precinct Station, situated on Canfield avenue east, near Woodward avenue, and one sub-station, the Hamlin Avenue Station. The mounted patrol is also attached to this precinct. There is one patrol wagon station, at the precinct station.

The officers and men of the precinct are distributed as follows:

PRECINCT STATION.

Captain—Jesse Mack	1	
Lieutenants-E. A. Noble and O. C. Linsday		
Sergeants-William Dench and Bert Long		
Patrolmen	2	
Doormen	2	
m		
Total	34	
SUB-STATION.		
Lieutenants-H. M. Slater and Jeremiah Sullivan	2	
Sergeants-Frank E. Wight and Lyman W. Blakely		
Patrolmen		
Doorman		
	_	
Total	2	

FIFTH PRECINCT.

This precinct comprises that part of the city lying between the center line of Fourth street and the center lines of Twentieth street and Humboldt avenue, between the river and Holden road and Boulevard. There is one principal station, the Fifth Precinct Station, situated corner of Michigan and Trumbull avenues, and one sub-station, corner of Grand River avenue and Twelfth street.

The officers and men of the precinct are distributed as follows:

PRECINCT STATION.

Captain—Alphonso Baker	
Lieutenants-Michael Kenney and Thos. J. Myler	
Sergeants-H. Walpole, F. Schmelzer and P. Jocques	3
Patrolmen	
Doormen	
Total	38
SUE-STATION.	
Lieutenants-Benjamin High and H. E. Shoemaker	2
Sergeants-Thomas McGahan and Thomas J. Powers	2
Patrolmen	-
Doormen	2
Total	_
Total	29
The 53 patrolmen of this precinct are divided:	
For day duty	19
For night duty	
For relief duty	6
T	_
Total	53
Of the day patrol, special details are required as follows:	
Precinct detectives	
For the patrol wagon	2
Total	
10tal	4
Of the night patrol, special details are required as follows:	
For the patrol wagon	2
This leaves for street patrol service throughout the Fifth P	re-
For day duty	-
For night duty	
For relief duty	6
T-1.1	
Total	47

SIXTH PRECINCT.

This precinct comprises that part of the city lying west of the center lines of Twentieth street and Humboldt avenue to the city limits on the west, from Michigan Central Railroad to the northerly city limits. There is one station, the Sixth Precinct Station. situated on Vinewood avenue between Myrtle and Magnolia streets. There is one patrol wagon station, at the precinct station.

Officers and men are distributed as follows:

Captain—Wm. Thompson
Total
The 26 patrolmen of this precinct are divided as follows:
For day duty
Of the day patrol, special details are required as follows:
For the patrol wagon. 2 Precinct detectives. 2 Total 4
Of the night patrol, special details are required as follows: For the patrol wagon
This leaves for street patrol service throughout the Sixth Precinct:
For day mounted patrol duty
Total



SEVENTH PRECINCT.

This precinct comprises that part of the city lying west of the center line of Twentieth street to the city limits on the west from the river to the Michigan Central Railroad on the north. There is one station, the Seventh Precinct Station, corner of Scotten avenue and Fairbanks street. There is one patrol wagon station, at the precinct station.

Officers and men are distributed as follows:

Captain—C. C. Starkweather	
Total	
The 28 patrolmen of this precinct are divided:	
For day duty	ļ
Total	;
Of the day patrol, special details are required as follows:	
For the patrol wagon. 2 Precinct detectives. 2 For duty at Palmer Park. 1	;
Total 5	j
Of the night patrol, special details are required as follows:	
For the patrol wagon	:
This leaves for street patrol service throughout the Seventh Precinct:	l
For day mounted patrol duty. 2 For day foot patrol duty. 4 For night duty. 12 For relief patrol duty. 3	‡ 2
Total 2	

DISCIPLINE.

The number of complaints made before the Board against the members of the force during the year was 64.

Trials of same resulted as follows:

eduction of pay	15
primanded	20
ismissed from the force	4
narges not proven	22
ses dismissed	1
ept on probation	2
	_
Total	64

SIGNAL SERVICE DEPARTMENT.

Detroit, Mich., July 2nd, 1901.

John Martin, Superintendent of Police:

I herewith submit the following report of the Police Signal Service ending June 30th, 1901:

Reports received from officers	737,402
Alarms responded to	6,544
Arrests made	4,116
Fires attended	779
Miles traveled	16,841
False alarm of fires	81
Lost children conveyed to Stations	57
Sick and injured cared for	10
Insane persons cared for	g
Disturbances suppressed without arrest	2
Abandoned children cared for	1
Number of street boxes in service	230
Number of private signal boxes in service	25
Number of telephones at the several Stations, offices and residences	42
Number of telephones on Belle Isle	g
Number miles wire on Belle Isle	8
Number miles wires overhead	240
Number miles lead-covered cable "underground"	7
Number miles tape-covered cable "underground"	ϵ
Number miles insulated single wires	35

Telephone messages were received, recorded and acted upon through headquarters telephone, to the number of 11,867.

Very respectfully,

C. L. SPONENBURGH,

Signal Service.



ARRESTS.

The record of arrests submitted in detail herewith shows a total, during the year, of 7,795. The total amount of fines imposed from June 30, 1900, to July 1, 1901, in the various criminal courts in the city was \$24,528.50.

COMPARISON.

The following comparative table shows the arrests made during the years named for the causes therein set forth:

CAUSE OF ARREST.	1893	1894	1895	1896	1897	1898	1899	1900
Assault and battery	504	538	384	404	482	469	482	555
Assault with intent to kill	18	17	7	15	12	8	9	6
Attempt burglary	7	1	1	1	1		1	2
Burglary	15	28	12	23	23	16	14	30
Burglary and larceny	3	9	4	1	2			! •••••
Common drunkard	2	13	4	2		5	3	4
Disturbing the peace	2,273	3,102	2,145	1,050	1,181	1,126	1,262	1,273
Drunkenness	2,240	3,469	2,558	1,841	1,939	2,004	2,149	2,039
Keeping saloon open Sundays	98	158	99	23	45	32	47	26
Larceny from store in ay time	15	24	15	7	17	4		••••
Larceny from house in day time	7	5	15	8	13	10	11	12
Larceny from person	41	31	17	29	19	34	33	38
Larceny, simple	390	434	247	282	351	278	321	376
Larceny, grand	78	96	55	52	60	60	45	53
Murder	7	7	7	6	2	2	; 3 <u> </u>	2
Not paying liquor tax	379	302	28	45	36	21	10	44
Receiving stolen property	12	31	17	20	11	,	23	19
Rape	6	9	5	8	6	9] 6	7
Robbery	13	19	12	17	4	4	5	13
Selling liquor to minors	5	6	6	2	6	4	4	2
Vagrancy	242	359	251	164	171	104	249	259
Arrests for various other causes	2,231	3,104	2,213	2,529	2,816	2 853	2.766	3,035
Total	8 586	11,762	8.102	6,529	7,197	7,052	7,443	7,795

Obituary.

PATROLMAN LAWRENCE McGOWAN,

DIED JULY 9th, 1900. APPOINTED JUNE 29th, 1886.

PATROLMAN JOSEPH NIES,

DIED DECEMBER 25TH, 1900. APPOINTED APRIL 17TH, 1886.

PATROLMAN WILLIAM M. HARLOCK,

DIED FEBRUARY 27th, 1901. APPOINTED APRIL 10th, 1890.

PATROLMAN HARMON J. BAILEY,

DIED MARCH 15th 1901. APPOINTED JANUARY 18th, 1892.

HONORABLE MENTION.

Patrolman Herman Auberlin for the arrest in August last of one James Pomeroy, wanted for burglary committed in Bay City, Mich.

Patrolman George Wolz, for the capable manner in which he discharged his duty in arresting three men found, under suspicious circumstances, in the store of Adam Brandau, 665 Gratiot avenue, January 29th, 1901.

Patrolman Charles S. Curtis, for the arrest of Frank Rut-kowski and Walter Smolenski at 3 o'clock a. m. on May 23rd, 1901, in the act of breaking in the drawers of a safe in the coal office of J. Calvert, 413 Maybury avenue.

Patrolmen John Daley and William P. Ferrington, for the arrest of Frank Mogan and Frank R. Johnson at 6 o'clock a. m. June 11th, 1901, with property in their possession belonging to Adolph H. Gerhard, of Hamtramck, whose house had been broken into about 4 o'clock a. m., same date.

Patrolman James A. Murphy, for catching a run-away horse and saving August Haitman, of 242 Heidelberg street, from serious injury, if not death.

RETIRED.

The following named officers having become physically incompetent to perform police duty, were retired: Lieutenant James Purdue, Patrolmen James Johnston, F. W. Lahser and Adolph Wild.

TABLE SHOWING OPERATION OF LIQUOR TAX LAW FROM MAY 1st, 1900 TO MAY 1st, 1901.

Compiled from official reports of the several police precincts.

	Retailers paid tax.	Retailers not paid	Total Retailers	Wholesalers paid tax	Wholesalers not paid tax	Total Wholesalers	Manufacturers paid tax	Manufacturers not paid tax	Total Manufacturers	Total of all kinds paid tax	Total of all kinds not paid tax	Total of all kinds	Number filed Bonds
First Precinct	310		310	. .			1		1	311		311	311
Second Precinct	112		112	l			1	ļ	1	113		113	113
Third Precinct	38 3	ļ	38 3	1		1	14		14	398	. 	398	398
Fourth Precinct	38		38	! .			2		2	40	ļ	40	40
Fifth Precinct	133	١	133				1		1	134		134	134
Sixth Precinct	90		90				ļ			90	ļ	90	90
Seventh Precinct	60		60							60		60	60
Totals	1.126		1,126	1	 	1	19		19	1,146		1,146	1,146

PROSECUTION IN LIQUOR CASES IN POLICE COURT IN 1900-1901.

Compiled from the official report of Lieutenant James Thompson, in charge of Police Court Detail:

NATURE OF OFFENCE	To Recorder's Court	Dismissed Tax paid	Discharged	Recog, forfeited re-arrest ordered	Total
Not closing saloon Sunday	18		12	2	32
Not closing saloon 11 p. m	26		23	1	50
Obstructing view to bar	4		6		10
Not paying ilquor tax	14	23			37
Not filing liquor bond	6		2		8
Not displaying liquor card in saloon			1		1
Selling liquor to minors	1		 .		1
Allowing minors in saloon	1			!	1
	70	23	44	3	140

Respectfully submitted,

JAS. THOMPSON,

Lieut. Met. Police.

Liquor cases "held to the Recorder's Court" have been disposed of during the past twelve months, according to Lieutenant Eugene Sullivan's report, as follows:

OFFENSE	Convicted	Acquitted	Molle pros.	Total
Non-payment of liquor tax	5	2		7
Not closing saloon on Sunday			1	1
Not closi 1g saloon after 11 p. m	1			1
Not filing liquor bonds			1 '	1
Allowing minor in billiard room		1		1
Total	6	3	2	11
Fines imposed in ordinance cases			\$1.	,182 00
Fines imposed in miscellaneous cases	 .			320 00

DETECTIVE BUREAU.

John Martin, Superintendent of Police:

Sir—I herewith present report of Detective Bureau for year ending June 30th, 1901:

Number of conplaints received and acted on	3.796
Larceny complaints	3.555
Miscellaneous cases	241
Of which proved groundless on investigation	411
Total amount of property reported stolen	\$65,948.91
Amount of property in complaints proved groundless on investi-	
gation	14,822.15
Amount recovered	31,654.40
Number of arrests made in cases	654
Convicted	388
Cases pending in Recorder's Court	14
Warrants unserved	27
Number of letters and telegrams acted on and recorded	9.20
Circulars from police departments of other cities recorded and	
filed	697
Postals from police departments of other cities received and filed.	512
Arrests made for police departments of other cities	94
Value of property recovered for police departments of other cities	\$4,363.00
Number of pledges received from pawn shops and filed	20,552
Photos of criminals received from other departments	260
Criminals photographed and measured by the Bertillon System	102
Number of photos in gallery-home	2,691
Number of photos in gallery—foreign	1,621
Number of police records on file	2,140
Number of missing people reported	64

Respectfully submitted,

CAPT. JAMES McDONNELL,
Chief of Detectives.



ORDINANCE DETAIL.

Annual report of duties performed by Sanitary Detail from July 1st, 1900, to June 30th, 1901:

Notices served to comply with ordinances for	
Animals at large	5.
Awnings not 6½ feet from ground	1
Barbed wire fences on and along street to remove	I,
Dangerous buildings to repair	1
Dogs to license and muzzle	209
Defective gas pipes to repair	43
Fire ordinances	3
Guard excavations	2
Glass deposited in streets and alleys to remove	6
Hitching posts defective	:
Horses unhitched	
Licenses	2,21
Number buildings	710
Number dirt wagons	22
Number drays	8:
Obstructing streets and alleys	354
Paper deposited in streets and alleys to remove	599
Obstructing fire hydrants	2
Scattering dirt in streets	4
Signs over 3 feet from buildings to remove	40
Smoke nuisances to abate	69
Snow and ice to remove from sidewalks	1,444
Telegraph and other wires broken to repair	70
Thistles and weeds to cut	476
Board of Public Works Notified for	
Defective pavements	4:
Defective culverts	30
Defeative greatings	3



Defective sewers	20
Defective receiving basins	100
Defective bridges	11
Defective public fountains	13
Holes in streets and alleys to repair	96
Obstructions, trees blown down, etc., to remove	122
Defective sidewalks and crosswalks, sent through Corporation	
Counsel's office, to repair	6.793
Sanitary duties performed for the Board of Health and notices	
served to comply with ordinances—	
Depositing filth in private places	
Dead animals to remove	157
To collect garbage not called for	937 487
Provide proper garbage boxes	3.745
Filthy alleys to clean	5.238
Yards and cellars to clean	1.393
Cow yards and barns to clean	84
Hog pens to clean	115
Horse stables and yards to clean	77 ~~
Privy vaults to clean	1.288
Privies to connect with sewers	174
Construct suitable privies	29
Defective drains to repair	640
Drains to connect with sewers	170
Manure to remove	726
Discharging steam into public sewers	14
Stagnant water to abate	232
Leaking water pipes to repair	429
Nuisance reports from Health Officer investigated and reports made.	2,426
Confining animals offensive to neighbors	38
Crude oil in sewers	17
Notices served where female help is employed in stores to construct	
proper closets for males and females	3
Circulars served pertaining to contagious diseases	2.508
Placarded houses for yellow fever	I
Placarded houses for smallpox	35
Placarded houses for diphtheria	364
Placarded houses for scarlet fever	471
•	
T-4-1	
Total	35.930

Sanitary Squad detailed for police duty at the following places:

Exhibitions and shows	83
Civil and military parades	53
Knights of Pythias encampment	91
Belle Isle Sundays, and where large crowds are assembled	226
Banquets, receptions, balls and weddings	34
Art Museum Sundays, from 2 p. m. to 4 p. m	16
-	
Total	403

Sanitary Detail assist at fires, patrol Woodward avenue Christmas week and every Saturday evening. Three men patrol said avenue, assist City Sealer of Weights and Measures in looking after weights of coal and coke delivered in the fall and winter months.

Made 135 complaints in Recorder's Court for violation of ordinances, 33 for not obtaining licenses for meat shops, restaurants, ticket broker, drays, wagon peddlers, dogs and intelligence offices; for maaintaining nuisances, 73; filthy privies, alleys, yards and cellars, hog pens, cow barns, horse stables and yards, private drains, depositing filth in private places and stagnant water; 29 for other ordinances such as not numbering buildings, depositing glass in streets and alleys, obstructing sidewalks, smoke nuisances, signs over three feet from building, snow on sidewalks, awnings not $6\frac{1}{2}$ feet from the ground and animals at large; eight complaints made in the Police Court for being drunk, disturbing the peace and simple larceny.

Sanitary Squad enforces all ordinances in their districts by notifying parties violating to comply with the ordinances, after the time given in the notices expire complaints are made, except for nuisances which are referred to Health Officer and instructions obtained from him before prosecution.

Sanitary Detail: Lieutenant P. Hanrahan, Patrolmen James Canfield, John Campbell, G. W. Hardy, John McDonald, John McClellan, Alex. McRae, Thos. Muston, Henry J. Schmeltz, James Smith and M. Sullivan.

Respectfully submitted,

PIERCE HANRAHAN, Lieutenant of Police.
In Charge of Detail.

TRUANT SQUAD.

Detroit, Mich., June 30th, 1901.

John Martin, Superintendent of Police:

Sir—I herewith submit annual report of duties performed by the Truant Squad in looking after juvenile offenders and enforcing the compulsory school law during the year ending June 30th, 1901:

Arrests made by Truant Officers	
Arrests made by Patrolmen	395
-	
Total number arrests	720

CLASSIFICATION OF ARRESTS OF ADULTS.

Abduction	I
Abandoning children	1
Grand larceny	2
Rape	I
Procuring girl for house of ill-fame	I
Having girls under 17 years in houses of ill-fame	4
Simple larceny	6
Disorderly conduct	2
Drunk	I
Refusing to send children to school	8
Suspicion	2

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CLASSIFICATION OF ARRESTS OF BOYS.

Breaking and entering	7
Grand larceny	4
Simple larency	53
Assault and battery	32
Drunk	
Disorderly conduct	
Juvenile disorderly	
Jumping on railroad train	
Malicious injury to building	
Suspicion	
Careless use of fire-arms.	Ī
Carrying concealed weapons	-
	I D-
Truancy 8	•
Vagrancy	4
Unhitching and driving away horse	I
Obstructing railroad train	2
	– 562
CLASSIFICATION OF ARRESTS OF GIRLS.	
Court toward	_
Grand larceny	4
Forgery	I
Simple larceny	-
Assault and battery	5
Juvenile disorderly	
Truancy	55
Disorderly conduct	3
Witnesses	2
	- 138
Total arrests	
Total arrests	. 72
DISPOSITION OF CASES OF BOYS.	
Sentenced to Industrial School	•
Sentenced to House of Correction	
Sentence suspended	
Taken to Truant School	19
Turned over to parents	17
Turned over to officers out of city	6
Discharged by Superintendent	
Discharged in court	
Dismissed	
Pending	
	- 56:

DISPOSITION OF CASES OF GIRLS.

Sentenced to Sentenced to Sentence susy Taken to Ho Turned over Turned over Turned over Discharged . Pending	House of to part to W	se of (d d f Good rents icers o 'omen's	I Shep	tion herd city ective	Ageno					18 4 6 56 33 5 4 10 2 138 700
	CLAS	SSIFICA	HON U	F AKKE	.515 AC	CORDIT	NG TO	AGE.		
	9	10	11	12	13	14	15	16	17	
	yrs.	yrs.	yrs.	yrs.	yrs.	yrs.	yrs.	yrs.	yrs.	Total.
Boys	. 24	46	68	74	115	118	1 i 7			562
Girls		2	2	4	6	11	30	3 8	45	138
Total										700
Total										
Number of n Number of n Parents and	nissing	g boys	invest	tigated						112 115
disreputa										9
The folland enforcing				_			looki	ng af	ter t	ruants

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Number of visits made to parents and truants	330
Number of warrants served on parents and truants	190
Number of transfers looked up	905
Number of complaints made in Police Court against parents refusing	
to send children to school	8
Number of complaints in Police Court against boys for truancy	25
Number of notices received from the Factory Inspector of children applying for permits to work in factories, and refused on account of not having any education (same were served with warning no-	
tices, and entered school	61
Number of complaints from principals of private schools	79
Investigated them and assisted in keeping children in privat as well as public, schools.	:e,
Truant Squad: Lieutenant, Chas. Breault; Truant Officer	s.
J. (). Harris, Harry R. Gebbett, Richard Jordon.	-,
Respectfully submitted,	
CHAS. BREAULT, Lieutenant of Police,	

In Charge of Truant Squad.

RECORDER'S COURT.

Lieut. Eugene Sullivan, of the Central Division, reports the following duties performed by himself and Patrolmen R. S. Mc-Donald, J. F. Webb, Edward Rasicoe, Jas. I. Ferrington, Daniel O'Keefe and P. Hally, composing detail at Recorder's Court and Council Chamber:

Street opening summons served	T
Subpoenas served	
Summons served for licenses	
Summons served for fast driving	_
Summons served for fast riding	
Summons served for not tying animals	•
Summons served for nuisances	
Summons served for sidewalks	
•	6
Summons served for weights and measures	
Summons served for unlicensed dogs	
Summons served for animals at large 2	
Summons served for fire-arms 7	•
Summons served for miscellaneous offenses	_
Notices served for the Clerk of the Recorder's Court	
Total	-6
Number of sessions of the Recorder's Court attended	
Number of sessions of Common Council attended 5	
Total 69	_

POLICE COURT.

Lieut. James Thompson, of the Central Division, reports the following duties performed by himself, Sergts. John W. Hayes and Arnold Schenk and Patrolmen Park Donahue and Robert Schemansky, composing detail attending the sittings of the police justices:

Warrants served	1,292
Subpoents served	3,396
Court sessions attended	671
Complaints investigated	100
Jurors summoned	300
Prisoners conveyed to Detroit House of Correction	1,104
Total	6.863
Fines and costs imposed in Court Room No. 1	. •
Fines and costs imposed in Court Room No. 2	. 10,342.00
Total	.\$23,026.50

WEIGHTS AND MEASURES.

Superintendent Martin, Police Department, City:

Sir—I herewith submit my annual report of duties performed by the force in this office during the year ending 30th June, 1901:

Weight and Measure Ordinance—Chapter 21:

I have tested under the ordinance the following articles, to wit., 464 50-lb. weights, of which 335 were approved and 129 condemned.

Scales of all classes, 3,042, of which 2,119 were approved and 923 condemned.

Dry measures, 3,865, of which 3,457 were approved and 408 condemned.

Wet measures, 11,530, of which 10,769 were approved and 761 condemned.

Bread Ordinance—Chapter 103:

I have visited bakeries and tested weight of bread 621 times; 535 times I found the bread proper weight and 86 times it was short weight.

Coal Ordinance—Chapter 104:

Under this ordinance 1,462 loads of coal have been picked up on the streets and the weight verified, of which 548 were correct, 578 were over weight and 336 were short weight.

For the municipal authorities 359 loads of coal have been weighed and 152 for the Police Department.

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Peddlers have been stopped on the streets by my assistants and their scales and measures examined 4,617 times.

Under the foregoing ordinances, 89 complaints were made, of which 80 were convicted, 6 acquitted and 3 withdrawn by Corporation Counsel.

The calling of the several offenders were as follows, to wit: Gardeners, 1; peddlers, 65; coal dealers, 15; grocers, 1; butchers, 2; bakers, 1; confectioners, 1; tea dealers, 2, and millers, 1.

Respectfully submitted,

G. W. HEIGHO, City Sealer.

WEIGHTS AND MEASURES.

Captain George Heigho, sealer of weights and measures, reports the following duties performed by him:

SCALES TESTED	Approved	Condemned	Total
Butchers' beam	2		2
Counter	1,077	344	1,421
Wagon	130	95	225
Fifty-pound weights	335	129	464
Hopper	5	2	7
Platform	517	222	739
Dormant	41	28	69
Railroad track	20	4	24
Spring balance	327	228	555
Total	2,454	1,052	3,506
DRY MEASURES			
Counter yard.	13		13
Cord wood boxes			· · · · · · · · · · · • •
Half cord wood boxes	15	16	31
Half bushels	641	83	724
Pecks	897	82	97 9
Half pecks	907	95	1,002
Two quarts	520	19	539
One quart	464	113	577
Total	3,457	408	3.865
WINE MEASURES	١.	,	
Five gallons	123	64	187
Three gallons	2	1	3
Two gailons	5		5
One gallon	1,402	29	1,431
Two quart	1,784	88	1,872
One quart	2,983	186	3,169
Pints	2,990	200	3,190
Half pints	1.285	34	1,319
One gill	195	159	354
Total	10,769	761	11 530
Grand total	16,680	2,221	18,901

HARBOR MASTER'S REPORT.

John Martin, Superintendent of Police:

Sir—I would respectfully report the following duties performed by me during the past twelve months:

There were 66 vessels moved, or caused to be moved, as follows:

Sixteen steamers, 38 tow barges, 6 schooners, 5 tugs, and 1 scow.

Forty-seven persons were drowned in the river between St. Clair Flats and Lake Erie. I dragged the river for 15 bodies and recovered 13.

I was called out three times to move boats in the night time. Notified 55 shipkeepers with regard to ordinance cases, and all complied. Notified Board of Public Works to repair docks and repairs were promptly made. Notified 5 dock owners to repair docks and they complied. Assisted in making 3 arrests.

There are 95 life preservers along the docks from Fort Wayne to Water Works; 7 on Belle Isle Park and 4 on Belle Isle bridge—106 in all. They were used 12 times to good advantage.

A life preserver was stolen from J. & T. Hurley's dock and the lines of ten life preservers were cut and stolen. Capt. Hiram Brown was complained of in the Recorder's Court for not moving wreck of steamer Potts, foot of Twenty-fourth street. Case still pending.

Recovered one row boat, valued at \$25, and returned it to owner.

Took inventory last fall of all floating craft along docks from River Rouge to Water Works, 133 in all.

Nailed up 125 swimming notices along docks from Clark avenue to Rivard street.

Respectfully submitted,

W. H. O'NEILL, Harbor Master.



SUPERINTENDENT OF HORSES.

John Martin, Superintendent of Police:

Sir—I herewith present my annual report for the fiscal year ending June 30th, 1901:

The horses and everything pertaining thereto are in good condition.

There are now in the department 62 horses, 8 patrol wagons, 2 road wagons, 1 bus, 2 trucks, 1 buggy, 1 sealer of weights wagon, 2 three-spring wagons, 1 cart, 1 exercising wagon, 1 lumber wagon, 2 sleighs, and 26 saddles with necessary equipments.

Twenty-one horses were purchased and 22 sold.

None of the department horses have died during the year.

The following is the service in which horses are engaged:

For seven patrol wagons, night and day service 2	23
Mounted service	23
Light wagon service (Belle Isle)	2
'Bus service	2
Truck service	2
Sealer service	2
Buggy service	I
Light wagon service	1
General hauling, etc	2
Extra horses	4
	_
Total 6	:-

Twelve horses were turned out to pasture for rest.

Horses have been ordered out of service for the following causes:

Cold	4
Colic	5
Calked	3
Curb	1
Hurt catching runaway	2
Hurt knec	4
TY	5
Thomas in the 11	7
	8
The state of the s	
•	2
	4
Lame in front leg	3
Lame in tendon	2
Lame in foot	2
Nail in foot.	2
D	2
	_
	9
· · · · · · · · · · · ·	2
Spavin	I
Sore mouth	1
Scratches	2
Total 6	_

Respectfully submitted,

LEMUEL GUYMAN,
Superintendent of Horses.

CONDITION OF STATIONS.

John Martin, Superintendent of Police:

Sir—Herewith is respectfully submitted my annual report for the year ending June 30th, 1901, on the conditions of the following stations and buildings:

HEADQUARTERS AND CENTRAL STATION

are in good condition. New gutters were put around the entire station. Two new sectional "Ideal" boilers were placed in the basement, as the old boiler was condemned. The radiators throughout the Central Station were lowered to the floor, necessitating the lowering of the furnace room floor and the underpinning of the foundations. One new fire-proof vault was built off the superintendent's office and one in the Central Station for the preservation of the records. A large fireplace was built in Central Station and other minor repairs made.

FIRST PRECINCT SUB-STATION.

This station needs a general renovating.

SECOND PRECINT OR ELMWOOD AVE. STATION.

At this station general repairs were made, and it is in fair condition.

BELLE ISLE SUB-STATION.

This station was painted and put in thorough repair. Is in good condition.

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THIRD PRECINCT OR HUNT ST. STATION.

Minor repairs were made at this station, but it needs a thorough overhauling.

CHENE OR THIRD PRECINCT SUB-STATION.

A new frame wagon shed was added to this station and minor repairs were made. It is in a fair condition, except cell block.

FREEMONT OR FOURTH PRECINCT STATION.

This station and barn have been entirely remodeled and are now in first class condition.

HAMLIN AVE. OR FOURTH PRECINCT SUB-STATION.

is in a fair condition, except the exterior, which should have been painted, but the estimate was not allowed.

TRUMBULL AVE. OR FIFTH PRECINCT STATION.

is in good condition.

GRAND RIVER AVE. OR FIFTH PRECINCT SUB-STATION.

is now under construction. Will be finished on or about the 15th of July.

VINEWOOD OR SIXTH PRECINCT STATION.

Minor repairs were made. Is in fair condition,

SCOTTEN AVE OR SEVENTH PRECINCT STATION.

Small repairs were made. The interior of barn needs a thorough overhauling and painting; also cell block and second story of building.

HEADQUARTER'S BARN AND SIGNAL OFFICE.

This building is in good condition, except floor of wagon room.

HARBORMASTER'S BUILDING.

is in good condition

TEMPORARY GRAND RIVER AVENUE STATION AND BARN.

is in a fair condition.

Very respectfully submitted.

LIEUT. ALBERT M. STODDARD,
Superintendent of Buildings.

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DOGS.

Patrolman Richard Cuthbert, keeper of dog pound, reports as follows:

Dogs impounded Of which there were	
Killed	
Redeemed	72
Released	
Sold	528
Undisposed of at this date	27
Total	4.340

POLICE ON BELLE ISLE.

Detroit, June 30th, 1901.

John Martin, Superintendent of Police:

Sir—I herewith submit my annual report of the duties performed by the officers and matron on Belle Isle Park for the year ending June 30th:

The regular police detail for duty on the park has been 1 sergeant, 6 patrolmen, 1 doorman and 1 matron, but on several occasions during the year the force was increased from 2 to 40 men to maintain good order on the park and bridge approaches.

Six persons were arrested, all males; I charged with simple larceny, I carrying concealed weapons, I disorderly conduct and 3 on suspicion of larceny.

Disposition was made as follows: Two were convicted and sentenced by the police justice: I discharged and I dismissed on payment of costs by the police justice, and 2 discharged by the superintendent of police.

One person was taken to the station for investigation, but was not held by the officer in charge.

Twenty-two complaints were made in the Recorder's Court against persons for violating the Park Ordinances; 18 were discharged on suspended sentence and 4 dismissed.

Forty-one accidents occurred in which police assistance was rendered, all of them of a slight nature.

There were two sudden deaths on the Island, both males; one from heart disease and the other from sun stroke.



Forty-three lost articles and parcels were found, such as lunch baskets, hats, coats and pocket books containing small amounts of money or jewelry; some of the articles were returned to the owners who called at the station for them; those not called for were sent to the property clerk.

Twenty-five dogs were found running at large on the park and sent to the dog pound.

One hundred and twenty base and football games were looked after, besides all of the band concerts which were given on the Island.

Seventeen lost children were found and taken to the matron's apartments and cared for until claimed by parents or relatives.

Forty-five cases of sick or injured were attended to and cared for by the matron until called for by relatives or friends or were able to care for themselves.

Respectfully submitted,

WM. NOLAN, Captain, Commanding Second Precinct.

WORK OF THE YEAR IN DETAIL.

ARRESTS.

Total number of arrests	7, 7 9 5
Classification of arrests according to domestic relations:	
Married	
Total	7,795
Classification of arrests by education:	
Could read and write	7
Total	
Classification of arrests by race:	,,,,,
Caucasian Aírican Indian	569
Total	7,795
Classification of arrests by birth:	
Native born	4,579 3,216
Total	7,795

CLASSIFICATION OF ARRESTS ACCORDING TO AGE AND SEX.

		Female.	Total.
Under the age of twenty		124	1,690
Between the ages of twenty and thirty		521	2,551
Between the ages of thirty and forty		271	1,725
Between the ages of forty and fifty		149	1,078
Over the age of fifty	675	78	751
Total	6,652	1,143	7,795

CLASSIFICATION OF ARRESTS ACCORDING TO SEX AND DOMESTIC RELATIONS.

	Male.	Female.	Total.
Married			
Total	6.652	1,143	7.795

The following tables show their occupations, the crimes for which arrests were made, the birth-places of the prisoner's parents, and the birth-place of the prisoner; disposition of cases by the Police Justice, by the Recorder, and by the Department; classification of ages of prisoners, total amount of money taken from prisoners and returned to them after sentence, and other incidental duties:

CLASSIFICATION OF ARRESTS BY OCCUPATION.

Occupation	No.	Occupation	No.
Actors	8	Coachmen	17
Actresses	3	Conductors	5
Agents	93	Confectioners	5
Apprentice	I	Constables	1
Ball players	3	Contractors	6
Bakers	25	Collectors	9
Barbers	56	Coppersmiths	3
Bartenders	77	Cooks	85
Basketmakers	5	Coopers	10
Bellboys	14	Coremakers	28
Beltmaker	I	Corsetmakers	3
Billposters	2	Dentists	4
Blacksmiths	47	Deputy sheriffs	2
Boatmuilder	1	Drayman	1
Boilermakers	35	Dressmakers	7
Bookbinders	4	Drivers	4
Bookkeepers	29	Drovers	4
Bootblacks		Druggists	13
Boxmakers	2	Dyers	2
Brakemen	. 10	Editors	1
Brassfinishers	. 18	Electricians	19
Brewers	. 8	Elevator boys	3
Brickmaker	. 1	Engineers	48
Bridgebuilders	. 3	Engraver	I
Brokers	. 3	Errand boys	29
Broommakers	. 6	Expressmen	
Builders	. 2	Factory girl	
Buffers	. 4	Fakir	I
Butchers	75	Farmers	67
Capitalist	. 1	Filecutter	. 1
Cabinetmakers	. 10	Finishers	13
Callers	. 2	Firemen	48
Candlemakers	4	Fishermen	2
Cardrivers	. 2	Fishdealer	1
Carpenters	. 109	Florists	. 5
Carpetfitters	. 3	Foremen	20
Carriagemaker	. і	Framemakers	I
Carver	. 1	Fruitdealers	. 1
Chairmakers	. 4	Furdressers	5
Chemists	. 2	Gamblers	3
Cigarmakers	. 54	Gardeners	4
Cigar packers		Gasfitters	7
Clerkst	. 164	Gilders	3

Occupation	No.	Occupation	No.
Glassblowers	5	Newsboys	54
Grocers	2	No occupation	327
Hackmen	13	Nurses	5-7
Hairdressers		Organgrinders	4
Harnessmakers		Oiler	ī
Hatters	•	Packer	ī
Horsemen		Painters	177
Hostlers		Paperhangers	10
Hotelkeepers	_	Papermakers	2
Housekeepers		Patternmakers	14
Heaters		Pavers	3
Hucksters		Peddlers	114
Insurance agent		Photographers	4
Inspectors		Physicians	18
Irondealers		Pianomakers	3
Ironworkers		Platers	3
Interpreters		Plasterers	18
Janitors	-	Plumbers	39
Jewelers	_	Policeman	I
Jockeys		Polishers	43
Junkdealers		Porters	41
Justice of peace		Propertymen	2
Knitters	. 1	Pressmen	6
Laborers		Printers	61
Lathers	-	Prostitutes	484
Laundrymen	. 3	Puddler	1
Lawyers	_	Rabbi	I
Letter carrier		Ragdealers	2
Linemen		Railroad employees	7
Lithographers	. 4	Real estate dealers	10
Liverymen		Reedmaker	1
Locksmith		Reporters	7
Lumbermen		Restaurantkeepers	2
Mail carrier		Riveters	2
Motormen	•	Roofers	5
Machinists		Rubber	1
Masons		Salesmen	47
Merchants		Sailmakers	3
Metalworkers		Sailors	124
Milkmen		Saloonkeepers	204
Millers		Sawfiler	I
Millwrights		Sawyer	- I
Mouldon	. I	Schoolboys	292
Moulders	. 179	Schoolgirls	12
ALMOICIAND	. 13		

THIRTY-SIXTH ANNUAL REPORT.

Occupation	No.	Occupation	No.
Shirtmakers	3	Telegraph operators	13
Seamstress	1	Thieves, professional	6
Servants	163	Touts	5
Ship carpenters	4	Tinsmiths	26
Shoemakers	48	Truckmen	. 4
Showman	1	Trunkmakers	2
Silversmith	1	Turners	I
Soldiers	7	Undertakers	I
Springfitters	3	Upholsterers	3
Steam fitters	20	Veterinary surgeons	2
Steam pipe coverers	. 1	Wagonmakers	4
Stonecutters	13	Waiters	95
Stavecutters	3	Washerwomen	9
Stovemounters	13	Watchmen	5
Stripper	I	Weavers	1
Students		Wheelsmen	I
Stenographers	4	Whitewashers	2
Switchmen		Wireworkers	. 6
Superintendent		Woodturners	. 7
Tailors		Woodworkers	. 6
Teacher	_		
Teamsters	_	Total	. 7.70

CLASSIFICATION OF ARRESTS BY NATIVITY.

	Mothe	r Fathe	r Pris.		Mother	Fathe	r Pris.
United States-				Armenia	2	2	2
Caucassian African Indian Ireland Canada Germany England Scotland Unknown Poland France Belgium Austria Bavaria	1519 569 5 1209 918 1744 381 215 293 515 77 26 18	1406 569 5 1279 853 1776 446 241 340 515 89 32 19	4005 569 5 373 1021 952 189 88 34 307 41 22 14	Armenia Australia Egypt Africa Bohemia China Cuba Denmark E. Indies Finland Greece Hungary At Sea Newfoundland Nova Scotia Syria			
Russia	6,3	63	45	Spain	2	1	I
Sweden	ĬŌ	20	16	Wales	3	2	2
Switzerland	19	19	11	West Indies	1	I	
Norway	7	7	7	Turkey	2	2	2
Italy	36 8	41 7	33 5				
Arabia	3	3	3	Totals	7795	7795	7795

CLASSIFICATIONS OF ARRESTS BY OFFENSE CHARGED, OR CAUSE OF ARREST.

Adultery	Ma	le Fe	emale	Male	Female
Abortion	Adultery	7	5	Careless use of fire-	
Abusive language I weanons 19 Allowing minors in saloon	Abandoning children	1	1	arms	3
Allowing minors in saloon	Abortion	I		Carrying concealed	
Common prostitute	Abusive language		1	weapons I	9
Assault	Allowing minors in sa-			Common drunkard	4
Assault and batterv. 465 90 Abduction	loon	, 2		Common prostitute	. 300
Abduction I Cruelty to children I Assault with intent to kill 6 Defrauding government I Defrauding government I Defrauding government I Defrauding government I Defrauding hotel-keepers 9 Deserting U. S. armv I Disorderly conduct 474 63 Disorderly persons 65 17 Disorderly persons 65 17 Disturbing the peace 1,046 227 Disposing of mortgaged property I Drunkenness 1,813 226 Embezzlement 17 Employing child 14 years old I Exhibiting immoral dwelling, day time I Exhibiting obscene office, day time I Exhibiting obscene pictures 2 Exhibiting obscene store, day time I Incest I Incest I Indecent exposure of person 3 Indecent liberties with female child 2 Erailroad car 7 Illegal use of label I Insanity 9 I Illegal use of label I Insanity 9 I Illegal use of label I Insanity 9 I Illegal use of label I Incest I Insanity 9 I Illegal use of label I Incest I Illegal use of label I Incest I Illegal use of label I Incest I Illegal use of label I Illegal use of label I Incest I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label Illegal use of label Illegal use of label Illegal use of label Illegal use of label Illegal use of label Illegal use of label Illegal use of label Illegal use of label Illegal use of label Illegal use of l	Assault	15		Conspiracy	3
Assault with intent to kill	Assault and batterv	465	90	Cruelty to animals 1	ı
Assault with intent to kill	Abduction		ī	Cruelty to children	ı
Assault with intent to do bodily harm 30 3 Assaulting an officer 3 Deserting U. S. armv. I Disorderly conduct 474 63 Disorderly persons 65 17 Disturbing the peace 1,046 227 Disposing of mortgaged ed property I Drunkenness 1,813 226 Bastardy 26 Embezzlement 17 Employing child 14 Breaking jail 3 Employing child 14 Breaking and entering dwelling, day time 13 Exhibiting immoral dwelling, day time 1 Exhibiting obscene office, day time 1 Eraking and entering office, night time 2 False pretenses 33 1 Forgery 14 1 Eraking and entering shop, day time 1 Incest 1 Incest 1 Indecent exposure of person 3 Indecent liberties with female child 2 Eraking and entering store, night time 4 Indecent liberties with female child 2 Eraking and entering railroad car 7 Illegal use of label I Insanity 9 I Illegal use of label I Inganity 9 Illegal use of label I Inganity 9 Illegal use of label I Inganity 9 Illegal use of label I Inganity 9 Illegal use of label I Inganity 9 Illegal use of label I Inganity 9 Illegal use of label I Inganity 9 Illegal use of label I	Assault with intent to				
Assault with intent to do bodily harm 30 3 Assaulting an officer. 3 Deserting U. S. armv. 1 Disorderly conduct 474 63 Disorderly persons. 65 17 Disturbing the peace 1,046 227 Disposing of mortgaged property 1 Drunkenness 1,813 226 Embezzlement 17 Employing child 14 years old 1 Exhibiting immoral dwelling, day time 1 Exhibiting immoral office, night time 2 Exhibiting o b s c e n e pictures 2 Exhibiting office, night time 2 False pretenses 33 Indecent exposure of person 3 Indecent liberties with female child 2 Employing on railroad	kill	6		ment	ı
do bodily harm 30 3 Assaulting an officer 3 Deserting U. S. armv. 1 Disorderly conduct 474 63 Disorderly persons 65 17 Disturbing the peace 1,046 227 Disposing of mortgaged property 1 Drunkenness 1,813 226 Bastardy 26 Embezzlement 17 Employing child 14 Breaking jail 3 years old 1 Exhibiting immoral dwelling, day time 13 Paper 2 Exhibiting obscene pictures 2 Exhibiting obscene pictures 2 Exhibiting obscene shop, day time 1 Incest 1 Incest 1 Incest 1 Incest 1 Incest 1 Incest 1 Incest 1 Indecent exposure of person 3 Indecent liberties with female child 2 Insanity 9 I Illegal use of label 1 Insanity 9 I Illegal use of label 1 Incest I Incest I Insanity 9 I Illegal use of label I Incest I Illegal use of label I Incest I Illegal use of label I Incest I Illegal use of label I Illegal use of label I Incest I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label I Illegal use of label Illegal use of				Defrauding hotel-keep-	
Attempt to commit rape	do bodily harm	30	3		9
rape	Assaulting an officer	3		Deserting U. S. armv.	ı
Attempt to commit burglary	Attempt to commit			Disorderly conduct 47	4 63
burglary		3	• •	Disorderly persons 6	5 17
Attempt at train wrecking	Attempt to commit			Disturbing the peace1,04	6 227
ing	burglary	2	• •	Disposing of mortgag-	
Bastardy	Attempt at train wreck-			ed property	I
Bastardy	ing	3		Drunkenness	3 226
Bigamy	Bastardy	26			
Breaking and entering dwelling, day time 13 paper 2 Breaking and entering office, day time 1 pictures 2 Breaking and entering office, night time 2 Breaking and entering shop, day time 1 Breaking and entering store, day time 3 Breaking and entering store, night time 4 Breaking and entering store, night time 2 Breaking and entering store, night time 3 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and entering store, night time 2 Breaking and e	Bigamy	I		Employing child 14	
dwelling, day time 13 paper 2 Breaking and entering office, day time 1 pictures 2 Breaking and entering office, night time 2 False pretenses 33 1 Breaking and entering shop, day time 1 Incest 1 Breaking and entering store, day time 3 person 3 Breaking and entering store, night time 4 female child 2 Breaking and entering railroad car 7 Illegal use of label 1 Bribery 1 Jumping on railroad 1	Breaking jail	3		years old	I
Breaking and entering office, day time I pictures 2 Breaking and entering office, night time 2 Breaking and entering shop, day time I Breaking and entering store, day time 3 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 4 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night time 3 Breaking and entering store, night t	Breaking and entering			Exhibiting immoral	
office, day time I pictures 2 Breaking and entering office, night time 2 False pretenses	dwelling, day time	13		paper	2
Breaking and entering office, night time 2 Forgery 14 I Breaking and entering shop, day time I Incest I Breaking and entering store, day time 3 Breaking and entering store, night time 4 female child 2 Breaking and entering railroad car 7 Illegal use of label I Bribery I Jumping on railroad	Breaking and entering			Exhibiting obscene	
office, night time 2 Forgery 14 I Breaking and entering Shop, day time I Incest I Breaking and entering Store, day time 3 person 3 Breaking and entering Store, night time 4 female child 2 Breaking and entering Indecent liberties with Store, night time 4 female child 2 Breaking and entering Insanity 9 I Bribery I Illegal use of label I Bribery I Jumping on railroad	office, day time	I		pictures	2
Breaking and entering shop, day time I Incest I Indecent exposure of person 3 Indecent liberties with store, night time 4 Indecent liberties with female child 2 Insanity 9 In	Breaking and entering			False pretenses 3	3 1
Breaking and entering shop, day time I Incest I Indecent exposure of person 3 Indecent liberties with store, night time 4 Indecent liberties with female child 2 Insanity 9 In	office, night time	2		Forgery	4 1
Breaking and entering store, day time 3 Breaking and entering store, night time 4 Breaking and entering railroad car 7 Bribery 1 Indecent exposure of person 3 Indecent liberties with female child 2 Insanity 9 I lllegal use of label I Jumping on railroad	Breaking and entering				3
Breaking and entering store, day time 3 Breaking and entering store, night time 4 Breaking and entering railroad car 7 Bribery 1 Indecent exposure of person 3 Indecent liberties with female child 2 Insanity 9 I lllegal use of label I Jumping on railroad	shop, day time	1		Incest	ı
Breaking and entering store, night time 4 female child 2 Breaking and entering Indecent liberties with female child 2 Insanity 9 I Illegal use of label I Bribery I Jumping on railroad				Indecent exposure of	
Breaking and entering store, night time 4 female child 2 Breaking and entering Indecent liberties with female child 2 Insanity 9 I Illegal use of label I Bribery I Jumping on railroad	store, day time	3		person	3
Breaking and entering Insanity				Indecent liberties with	
railroad car 7 Illegal use of label I Bribery I Jumping on railroad	store, night time	4		female child	2
Bribery I Jumping on railroad	Breaking and entering			Insanity	9 1
	railroad car	7		Illegal use of label	1 ··
	Bribery	I		Jumping on railroad	
Buying junk from min- trains in motion 13					_
ors 3 Juvenile disorderly 35 20	ors	3		Juvenile disorderly	15 20
Burglary 30 Keeping house of ill-		30		Keeping house of ill-	
Capias 5 fame 1		5		fame	. 1

м	ale	Female	M	ale 1	Female
Keeping saloon open			Receiving stolen prop-		
after hours	61	I I	erty	18	I
Keeping saloon open			Refusing to support		
Sunday	25	5 1	family	196	
Keeping young girl in			Removing leased chat-		
house of ill fame		. І	tels	2	I
Larceny	260	5 41	Robbery	12	I
Larceny, simple	338	38	Seduction	2	
Larceny, grand	4	1 9	Selling unstamped ci-		
Larceny from dwelling,			gars	2	
day	1:	2	Selling cigarettes to		
Larceny from the per-			minors	I	
son	34	4 4	Selling liquors to		
Malicious injury to			minors		2
building	5	7 2	Slander	27	23
Malicious injury to			Suspicion	760	33
personal property	2	5 1	Smuggling	I	
Manslaughter		3	Threats	47	2
Murder	:	2	Truancy	67	12
Not paying liquor tax.	4	2 2	Tippling	3	
Not filing U. S. bonds.	9	9	Unhitching a horse	I	
Not sending child to			Using indecent lan-		
school		3	guage	2	I
Obstructing an officer.	:	2	Vagrancy	254	. 5
Obstructing bar-room			Violating pharmacy		
view	I	ı	law	6	1
Not providing elevator			Violating parole	I	
with gate		ı	Violating food law	45	• • •
Not displaying liquor			Violating game law	2	3
card		ı	Violating barber law	11	
Perjury		3 2	Violating election law.	I	
Passing bogus checks.		I	Violating revenue law.	1	
Procuring females for			<u></u>		
immoral purposes		ı	Total	5,652	1,143
Rape		, , ,	Grand total		.7,795

The cases of the persons arrested by the force as above detailed met with the following results:

DISPOSITION OF CASES BY THE POLICE JUSTICE.

Cases dismissed	300
Cases still pending trial	90
Cases dismissed and costs paid	122
Discharged	927
Failed to appear at Police Court	39
Personal recognizance forfeited	36
Suspended sentence	1,982
Sentenced to House of Correction	2,805
Sentenced to Reform School for Boys	62
Sentenced to Reform School for Girls	12
Released to appear for trial	166
Total	6.541
DISPOSITION OF CASES BY THE RECORDER.	
Cases nolle prosequied	17
Cases still pending trial	158
Discharged	56
Paid fines imposed	3
Personal recognizance taken	3
Suspended sentence	32
Sentenced to Detroit House of Correction	51
Sentenced to Ionia House of Correction	5
Sentenced to State Prison	25
Sentenced to Lansing Industrial School	2
Total	352
DISPOSITION OF CASES BY THE DEPARTMENT.	
Discharged	700
Taken to House of the Good Shepherd	705
Turned over to officers wayne County	14
Turned over to officers wayne county	14

Turned over to officers from abroad.....

COMMISSIONER OF THE METROPOLITAN POLICE. 71
Turned over to parents
Turned over to Poor Commissioner
Turned over to U. S. Authorities
Turned over to Coroner
Turned over to coroner
Total 899
WAYNE CIRCUIT COURT.
Pending
Grand total
There have also been attended to by the force in general, the following reported:
MISCELLANEOUS MATTERS.
Abandoning child
• • • • • • • • • • • • • • • • • • • •
Accidental shooting
Affrays 27 Animals impounded 165
- · · · · ·
Assaults
Attempt suicide
• · · · · · · · · · · · · · · · · · · ·
Buildings found open and secured
Drowned
Fires
Found dead 8
Found dead
Found dead
Found dead 8 Horses killed 4 Insane attended 15 Lost or stolen property 29
Found dead 8 Horses killed 4 Insane attended 15 Lost or stolen property 29 Lots of miscellaneous articles (found) 30
Found dead 8 Horses killed 4 Insane attended 15 Lost or stolen property 29 Lots of miscellaneous articles (found) 30 Lots of miscellaneous articles (lost) 31
Found dead 8 Horses killed 4 Insane attended 15 Lost or stolen property 29 Lots of miscellaneous articles (found) 30

Mail boxes found open	2
Rape	I
Rescued from drowning	3
Runaways attended to	54
Sudden deaths	44
Strayed or stolen	65
Stray teams and wagons found in street and returned to owners	106
Suicides	19
Sick attended to	81
Unlighted street lamps	821
Window glass broken	17
Total	7.364

SURGEON'S REPORT.

Detroit, Mich., July 1, 1901.

To the Honorable Frank C. Andrews, Commissioner Metropolitan Police, Detroit, Mich.:

Dear Sir:—I have the honor to herewith transmit my annual report for the year ending June 30th, 1901:

Four police officers have died during the year.

Lawrence McGowan died July 9, 1900, of ulcerative colitis.

Joseph E. Neis died December 25th, 1900, of Bright's disease.

Wm. A. Harlock died February 28th, 1901, at Ovid, Mich., of pneumonia.

J. Harman Bailey died at Trumbull avenue police station, March 15th, 1901, of heart disease.

Eight hundred and forty-nine officers reported sick and disabled during the year from the following causes:

Appendicitis	1	Cholera morbus	6
Abscess	5	Cystitis	2
Asthma	2	Chills	6
Aneurism	1	Cancer	I
Bites	1	Cuts—	
Burns	6	Of scalp	6
Boils	3	Of face	2
Bunion	1	Crushed foot	I
Colic	3	Diarrhoea	60
Cramps	4	Diabetis	1
Colds 2	242	Dropsy	1
Chronic cough	4	Dysentry	3

For oak	_		To discount on	
Ear ache	2		Indigestions	56
Ezcema	3		Jaundice	I
Exhaustion	4	ì	La grippe	137
Epilepsy	I		Lumbago	29
Fractures—		1	Malaria	4
Of low		İ	Migraine	1
Of leg	I		Neuralgia	20
Of thigh	I		Opthalmia	3
Finger	2	r	Pleurisy	3
Ribs	3		Paralysis	2
Clavicle	I		Pneumonia	3
Fistula	I		Rupture	2
Felon	I		Rheumatism	62
Gout	I		Sore foot	7
Gun-shot wound	I			′
Heart disease	1		Sprains—	
Headache	12	i	Of ankle	17
Hay fever	3		Of back	5
Haemorrhoids	7		Of knee	16
Heat stroke	1		Of wrist	I
Haemoptysis	1		Tonsilitis	24
Erysipelis	1	- 1	Toothache	8
	•		Urticria	2
Injuries—			Uremia	1
Of the chest	3	- 1	Vertigo	4
To thigh	4		Wounds-	
To shoulder	I			
To foot	3	1	Of scalp	4
To elbow	1		Of face	8
To eyes	ī	ı	Vericose veins	2
То leg	4		Total	849
	-			

The above sickness and injuries resulting in a loss of time to the department amounting to 5,203 days.

Seventy-nine applicants have been examined during the year, of whom nine have been rejected; II probationers have passed satisfactory examinations.

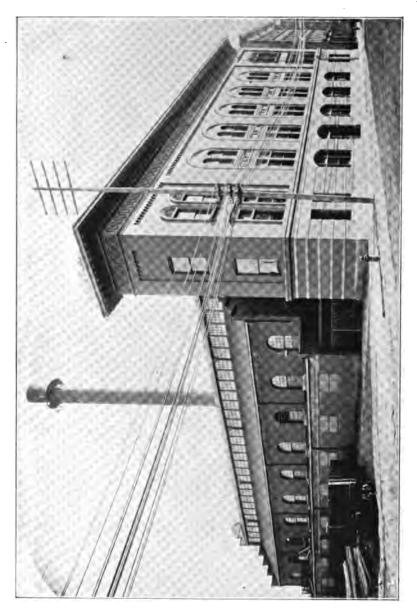
I have given a series of lectures to the officers of the force, instructing them in the resuscitation of the drowned, the prompt recognition and treatment of persons suffering from poison, first

aid to the injured, and criminal medical jurisprudence, as well as other medical topics connected with their duties. I have inspected the station houses and prisons, and find them in good sanitary condition.

Respectfully submitted,

DAYTON PARKER, M. D.,

Department Surgeon.



PUBLIC LIGHTING COMMISSIONERS, 1901.

SIXTH ANNUAL REPORT

OF THE

Public Lighting Commission

CITY OF DETROIT.

Fiscal Year Ending June 30, 1901.

THE COMMISSION.

DAVID W. SIMONS, F	resident Term expires April 4, 1905
E. H. McCURDY, Vice-	PresidentTerm expires April 4, 1902
JAMES E. DAVIS	Term expires April 4, 1903
FREDERICK F. INGR.	AMTerm expires April 4, 1904
JOHN ERHARD	Term expires April 4, 1906
HAMILTON CARHAR	TT April 4, 1907
FRANK T. BOW	LER Secretary,
WILLIAM M. DA	LYCity Electrician and Gen'l Supt.
AUSTIN S. HAT	CH Assistant Gen'l Supt.
Custodian of Funds	WM. B. THOMPSON, City Treasurer.
Auditor of Accounts	F. A. BLADES, City Controller.
City Accountant	FRANCIS I DUCAT





The Ex-Members of the Commission are:

C. A. Newcomb, April, 1893, to July, 1893.

Martin Butzel, April, 1893, to March, 1895.

George H. Lothrop, April, 1893, to April, 1896.

W. A. Jackson, April, 1893, to July, 1896.

Edwin Henderson, April, 1896, to December, 1896.

W. R. Farrand, April, 1893, to April, 1897.

J. L. Hudson, April, 1893, to May, 1898.

John Atkinson, July, 1896, to July, 1898.

R. H. Fyfe, July, 1893, to October, 1899.

C. H. Ritter, March, 1895, to January, 1900.

John Miner, December, 1896, to January, 1900.

W. A. Livingstone, April, 1897, to January, 1900.



DETROIT, MICH., July 31, 1901.

To the Honorable the Common Council, City of Detroit, Michigan.

Gentlemen—The Public Lighting Commission respectfully submits for your consideration the accompanying report of the business intrusted to its care during the fiscal year ending June 30, 1901.

In the report an effort has been made to present such data as will best convey an understanding of the work done, the costs of municipal lighting and the condition of the city's investment.

We have the honor to be,

PUBLIC LIGHTING COMMISSION,

By David W. Simons, President.

Frank T. Bowler, Secretary.

Office of the Public Lighting Commission.

Detroit, Mich., Oct. 1, 1901.

To the Hon. Public Lighting Commissioners:

Gentlemen:-

I submit the sixth annual report of the business and operation of the Public Lighting Plant, covering the fiscal year ending June 30, 1901, fully confident that additional demonstration has been made of the success of public lighting in Detroit. While it is true that there has been a slight increase in the cost of operation for the year, namely, 86 cents per are light, gross cost, and \$2.20 per arc light cash cost, yet a careful comparison of this year's conditions with those that obtained in previous years will show that the efficiency and economy of administration have been substantially increased. It must be remembered that during the year just closed the cost of labor and of all classes of supplies have shown a marked increase. It is a striking fact that the increase in the cost of coal alone was \$1.60 per arc light, which item will, in itself, more than account for the increase in the gross cost per arc light. It must also be borne in mind that as the age of the plant increases the necessary cost of repairs and of replacing of parts, which is added to the cost of operation, must also increase. During a year therefore of unfavorable conditions for the manufacture of any commodity cheaply we must feel gratified that the Public Lighting Plant has been operated with but a nominal increase in cost.

The entire maintenance and operating cost for the last fiscal year was \$99,094.62 as compared with \$90,087.73 for the preceding year, showing an increase of \$9,006.89. The output of the plant, however, was 3.973.350 Kilowatt Hours as against 3.789,050 Kilowatt Hours last year, showing an increase in the output of 184,300 Kilowatt Hours.

The following table will show the ratio of increased expenditures among the different departments:

	W	age	es.	Sto	ores	
	Increase.	_	Decrease.	Increase,	D	ecrease.
Maintenance	\$1,214.02	\$		\$2,468.60	\$	
Executive			481.46	132.53		
Station	453.28			4,396.82		
Lighting						651.24
Shop supplies						27.79
Injuries and damages			99.38			651.24
Totals	\$3.399.51	\$	580.84	\$6.997.95 \$10.397.46	\$	809.73
Total decrease						
Net increase				- 0 006 80		ogle

Digitized by \$156,603.60

While always keeping in mind that economy of operation is one of the main ends to be attained, yet the Commission has never been forgetful of other ends to be subserved by the Public Lighting Plant. No striving, therefore, after a reduction of operating expenses in the different departments has been permitted to impair the efficiency of the lighting service given to the city. The Commission has always been mindful also of the beauty of our city and it has always been its aim to interfere as little as possible with the sightliness of her streets, even when the closest economy might have countenanced a somewhat different policy, and it is unfortunate that in this regard the Commission has not met with the unqualified assistance and encouragement of other public boards.

The total output of the plant for the year was as follows:

For arc lighting	3,475,389 497,961	Kilowatt	Hours.
Making a total of	3,789,050 its		
The Commission upon careful consideration change the method of arriving at the actual contoning to the city.			
To the cash cost of operating the plant is follows:	added the	fixed char	rges, as
Depreciation on the entire investment of \$74 June 30th, 1901	\$720,620.5 taxes we igured by alar rate of robable as ssessed val ted in the op per \$1,0	34, for 28 re the charg- f taxa- sessed lues of city, is	2,325.61 3,824.81 5,358.56 5,094.62
Making a total cost of	· · · · · · · · · · · · · · · · · · ·	\$150	5,603. 60
Total cost proportioned between arc and ing to output of each is as follows:	incandesce	nt plants	accord-
Arc plant		\$136	5.977.22 9,526.38

Cost of operation per arc light (cost of operation divided by average
number of lights, 2,035)\$67.31
Cost per arc light subdivided—
Operating disbursements\$42.59
Interest at 4% on investment 12.39
Depreciation at 3% on investment
Lost taxes on investment
Total\$67.31 Gross cost per arc light, fiscal year ending June, 190066.45
Increase
Cash cost per arc light, fiscal year ending June 30, 1901\$42.59
Cash cost per arc light, fiscal year ending June 30, 1900 40.30
Increase

As has been shown in reports of previous years, the gross cost of operation to the Commission is by no means the measure of the cost of public lighting to the citizens of Detroit. Certain incomes accruing to the Commission go to reduce the actual cash cost of operation to the taxpayers, while a saving of expenditure formerly made by other agencies of the city government and now saved by virtue of the existence of this Commission make a further reduction in cash cost.

These items may be summarized as follows:

Proportion of time of City Electrician and Assistant now saved by
Commission, per annum\$1,200.00
Collections from rentals
Total\$5,310.99

Averaging this deduction from the cash cost reduces the cash cost per arc light from \$42.59 to \$40.31.

The income from the rental of conduits would be greatly increased and the cash cost of lighting correspondingly decreased were it possible to compel private companies to place their wires underground and to use the conduits of the Commission. In view of such use by private companies, the Commission has provided many more ducts than are at present used. The interest, depreciation, and lost taxes upon the surplus conduit investment deducted from the fixed charges would further reduce the gross cost of operation.

The Commission during the last fiscal year was confronted with the necessity of providing for an increased output. July 1, 1900, found the Commission with a demand for 600 new lamp locations, an overload of 10% on 19 arc machines in order to hold one set of four in reserve, and an incandescent service with a 10% overload and no reserve. The floor

space of the station was already filled, so to meet this demand the problem resolved itself into installing a system of direct connected units or enlarging the station. The former involved a complete change of station equipment, the latter meant the installing of the same or a different method of equipment for the extensions. After carefully weighing the cost of construction and operation, and inspecting the methods being adopted by the best plants, both private and municipal, it was decided to install the series, enclosed, alternating arc system.

There were installed during the year:

One Triple-Expansion Marine Type Engine, cylinders 17 in. by 27 in. diameter and 30-in. stroke, 120 revolutions per minute, 160 pounds steam pressure, 1,000 Horse Power Maximum, at 26 in. vacuum, and direct connected to a 600 Kilowatt 2 phase Stanley Alternator, at 2,200 volts each phase.

One 175 Kilowatt Stanley 2 phase Alternator, 2,200 volts, at 500 revolutions per minute.

One 40 Kilowatt Northern Electric 125 volt direct current Dynamo, at 325 revolutions per minute, to be direct connected to Westinghouse engine and used as an exciter.

Realizing that the Commission was established to do all the city lighting, the necessity of furnishing light and power to the new County Buildings and to school, fire and police buildings was also taken into consideration, so the method of sub-station distribution was adopted and an appropriation was made by the Board of Estimates to enable the first station to be built. This sub-station will be equipped during the coming year and will supply 300 arc, 1,000 incandescent and 13 horse power in motors. Another item taken into consideration was the item of maintenance. While the repairs were kept up year by year, there was a constant deterioration which could not be replaced each year such as rusting of iron, rotting of poles, rebuilding of lines caused by the growth of trees, and the painting of buildings; this being designated as maintenance. Much of this work was done during the past year preparatory to the new installation. There was spent for this purpose a total of over \$8,000.00. From all this it will be readily understood why the plant did not show its usual decrease in the cost of operation.

Public lighting may be deemed no longer an experiment in the City of Detroit. Its success has been demonstrated. But while the experience of the last six years leads to the conclusion that municipal lighting can be done efficiently and at a saving to the taxpayers, it has also demonstrated that such results can be obtained only by the most rigid and careful economy, the application of the highest order of business method, and a complete alienation of those influences which often hamper and harass the operations of public boards. It must be remembered that the work of this Commission in one important respect differs from that of other public boards. This Commission is not alone performing certain public functions

as are other departments of the city government, but it is manufacturing a commodity which has a definite and measurable market value and quality, and which can be readily compared with that produced by private companies. It therefore behooves this Commission to be continually alert lest its efficiency and independence of conduct be hindered by circumstances to which private manufacturers are not a prey. That the Commission has for the most part been free from such influences its success is indicative, but a word of warning is always opportune and may keep us from lulling ourselves into too great a feeling of security. So long as we apply the same business principles as have been in the main applied in the past, so long will municipal lighting be successful and demonstrate the wisdom of the taxpayers who established it.

Yours respectfully,

DAVID W. SIMONS.

President.





SIX LIGHT TOWER ON CAMPUS MARTIUS.

MAST ARM.

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The City's Lighting Plant.

The property owned and controlled by the Public Lighting Commission now consists of the following:

The power house and office building located on Atwater street, between Bates and Randolph, having a frontage on Atwater street of 213 feet, 163 feet of which extends back an average of 318 feet 6 inches to the river front and 50 feet of which on the east extends back only a distance of an average of 68 feet. (The complete plan of the station will be found on page 26.)

The boiler house contains seven Double Deck Tubular Boilers, C. C. Peck design. Each boiler has 3,000 square feet of heating surface and is equipped with the Hawley Down Draft Furnace and Hoppes Live Steam Purifier and Worthington Water Meter. Five of these boilers are used at one time to operate the plant, the other two being kept in reserve. A

change is made every six out of commission is given ing. The coal is handled "Hunt" industrial railway, floor and have a capacity the Commission in Atwarailway tracks at Riopelle pushed in alongside and bins. The Commission has contracted for is paid for

weeks, and each boiler as it is put a complete overhauling and cleanin one-ton charging cars on a The coal bins adjoin the firing of 800 tons. A sidetrack built by ter street, and connected with the street, allows cars of coal to be unloaded directly into the coal its own track scales and all coal on "our weights."



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The Pump Room contains: One Fire Pump of 1,000 gallons per minute capacity. This pump is connected to a complete system of fire mainand is always under steam. It is used during the day to feed the boilers and to operate a water motor which runs the machine shop.

One Worthington Pressure Pattern Feed Pump, in reserve, of 100 gallons per minute capacity. This is connected to a duplicate boiler feed system.

Two Worthington Jet Condensers, with feed pumps attached. Either condenser will condense 36,000 pounds of steam per hour, and the auxiliary feed pump can feed the same amount of water to the boiler. All of the water used in the operation of



PUMP ROOM.

the plant is pumped by the above machinery from the Detroit river.

One Wainwright Heater, which utilizes the exhaust steam from the pumps and small engines in heating the boiler feed water.

One Westinghouse Air Compressor, which supplies the compressed air for cleaning machinery.

The Engine Room contains the following: ARC LIGHTING PLANT:

Five triple expansion, marine type engines; 200 revolutions per minute; 160 pounds steam pressure; 25-inch vacuum; cylinders, 11\frac{1}{4}-inch, 18 inches and 29 inches in diameter, and 18-inch stroke; horse power at maximum efficiency is 340.

Twenty 50-kilowatt, four-pole Western Electric Co. Arc Dynamos for constant current at 9.6 amperes; speed, 500 revolutions per minute. Four dynamos are driven by each engine, the connection being 7 \(\frac{7}{8}\)-inch cotton ropes to each dynamo.

Three 57½-kilowatt, two-pole Western Electric Co. Arc Dynamos for constant current at 9.6 amperes; speed, 465 revolutions per minute. Each dynamo is direct connected to a 100 horse-power, triple expansion Willans center-valve engine.

One 7-kilowatt, two-pole Brush Arc Dynamo; 1,080 revolutions; 6½ amperes; belt connected to same Westinghouse Compound En-



DOWN-TOWN POST.

gine as operates one Westinghouse alternator. This machine furnishes current for a small circuit of enclosed arc lamps.

INCANDESCENT LIGHTING PLANT:

Three Compound Westinghouse engines, run non-condensing; cylinders, 9-inch and 15-inch, with 9-inch stroke; speed, 350 revolutions per minute.

Three 55-kilowatt two-phase Westinghouse Alternators, belt driven. Alternators are run in parallel; 1,100 volts primary, 110 volts secondary.

Two exciters, one belt-driven and one direct-connected to a Westinghouse Standard Engine.

One Triple-Expansion Marine Type Engine, cylinders 17x27x46 inches diameter and 30-inch stroke, 120 revolutions per minute, 160 pounds steam pressure, 1,000 horse-power maximum, at 26-inch vacuum, and direct connected



DOUBLE POST-UNDERGROUND DISTRICT.

to a 600-kilowatt two-phase Stanley Alternator, at 2,200 volts each phase.

One 175-kilowatt Stanley twophase Alternator, 2,200 volts at 500 revolutions per minute.

One 40-kilowatt Northern Electric 125-volt direct current dynamo, at 325 revolutions per minute, to be direct connected to Westinghouse engine, and used as an exciter.

ARC LAMPS:

The 2,055 arc lamps in use are subdivided as follows:

1,812 "Brush" double carbon.

220 "Adams-Bagnall" single carbon.

5 "Adams-Bagnall" enclosed arc.

I "General Electric" enclosed arc.

I "Western Electric" enclosed arc.

10 "Western Electric" enclosed arc.

6 "General Electric" enclosed arc, alt. current



CENTER SUSPENSION.

2,055

Poles and Lines:

The overhead lines of the plant are strung on a total of 7,110 poles owned as per the following table. On these poles the Commission lies strung a total of 424 miles of copper wire.

Number of poles used by Public Lighting Commission and owned ...

follows:

	Increase.	Annual Report 1901.	Annual Report 1900.	De-
Public Lighting Commission	112	5,862	5.752	
Fire Commission		581	544	
Police Commission		459	459	
Edison Illuminating Co		. 66	77	.:
Michigan Telephone Co		1 2 6	75	
Street railways		14	35	2.
Not increase and accurate	200	7,110	6,942	32

Net increase, 200-32=168.

The poles of the Public Lighting Commission are used by other parties as follows:

	Increase.	Annual Report 1901.	Annual Report	De crease
Fire Commission	491	1,382	'891	
Police Commission		873	873	
Edison Illuminating Co	82	1,399	1,317	
Michigan Telephone Co	920	1,894	974	
East Side Electric Company		8 6	78	
Detroit Still Alarm Co		169	242	73
Street railways		523	523	
Detroit Shipbuilding Co	. 1	I	• • • •	
Parke, Davis & Co		I	I	
Western Union Telegraph Co	1	I	• • • •	
Strubei Bros			9	ι,
Not increase a real Part to	1,503	6 .32 9	4.908	82

Net increase, 1,503-82=1,421.

THE UNDERGROUND SERVICE—CONDUITS:

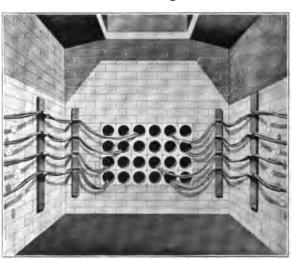
The conduits vary in size from 2 ducts to 24 ducts. The ducts are a special $3\frac{1}{2}$ -inch vitrified clay tile laid in concrete.

The total amount of conduits is as follows:

Size of Line.	Length of Line.	Lineal ft. of single
	J	ducts.
2 ducts	210 ft. 2 in.	420 ft. 4 in.
4 ducts	6,451 ft. 5 in.	25,805 ft. 8 in.
6 ducts		14,229 ft. 6 in.
9 ducts	21,340 ft. 9 in.	192,066 ft. 9 in.
10 ducts	138 ft. 1 in.	1,380 ft. 10 in.
12 ducts	95 ft. 0 in.	1,140 ft. 0 in.
15 ducts	560 ft. 10 in.	8,412 ft. 6 in.
16 ducts	2,104 ft. 8 in.	33,674 ft. 8 in.
24 ducts	347 ft. 2 in.	8,332 ft. 0 in.
Tunnel, 6 ft. 2 in. x 3 ft. 6 in	. 231 ft. 0 in.	
Tunnel, 5 ft. x 3 ft	. 96 ft. 0 in.	
Manholes, 155	. 887 ft. 7 in.	
Totals	34,834 ft. 3 in.	285,462 ft. 3 in.
LATERAL CONDUITS:		
Consisting of $2\frac{1}{2}$ in. lap welded iron 349 Handholes, 3 feet in length		
Total		45 506 ft

Of the above conduits in the streets of the city, the Commission has rented the following:

Edison Illuminating Co.............. 7,514 duct feet.



UNDERGROUND MANHOLE.

The rates charged for rental of conduits are as follows:

For single duct, 5c per foot per annum.

For two ducts paralleling each other, 9c for the two ducts per foot per annum.

For three ducts paralleling each other, 12c for the three ducts per foot per annum.

All such rentals are subject to the Rules and Regulations adopted by the Commission May 25th, 1897.



TUNNEL UNDER WOODWARD AVENUE, AT CAMPUS MARTIUS.

In the conduits the following lead covered, rubber insulated cables are used as conductors:

Arc lighting circuits, No. 4, B. & S. gauge	216,336 ft. 36,576 ft. 29,746 ft. 3,000 ft.
Total	285,658 ft.

All of the wires of the lighting system within the half-mile circle and a great portion of them inside the mile circle are under ground.



POST - BELLE ISLE PARK.

the Detroit River with the threephase feeder and the connection of the transformer station is accomplished by the use of 14,500 feet to No. 6 B. & S. gauge three-conductor, lead covered and rubber insulated cable, a part of which is armored with iron wire and placed under the river. The secondary mains connecting the several buildings with the transformer house are made up of 5,800 feet of No. 00 two-conductor and 1,100 feet of No. 1 two-conductor rubber insulated and lead covered cable and 3,000 feet of No. 4 single conductor cable.

The lighting in Water Works Park is done by 14 arc lights. The entire system is underground and was installed by the Water Commission at its own expense, this Commission furnishing the cur-

BELLE ISLE PARK:

Belle Isle, the principal city park, an island 700 acres in extent, located at the head of Detroit River and opposite the eastern end of the city, is lighted by the Commission entirely. wires are underground, 52,000 feet of 31inch wood conduit having been laid for this purpose, nearly one-half of which is still available for pulling in of cables. The bridge to the Island and the more important points on the main roadways are lighted by arc lamps, supported on ornamental iron posts. Fifty-one arc lamps are used and they are operated until 12 midnight as a part of the regular city circuits. Twenty-five thousand feet of No. 4 B. & S. gauge lead covered cable is used for this service.

The buildings in the west end of the park are lighted by incandescent lights, the current for which is obtained from mains connected with the central transformer station, where pairs of transformers receive three-phase alternating current at 3,500 volts and

deliver two-phase alternating current at 116 volts. The crossing of



The tower system used by the city in connection with the street lighting is a unique feature. These lights may be seen many miles away by the traveler approaching. The 137 towers in use may be classified as follows:

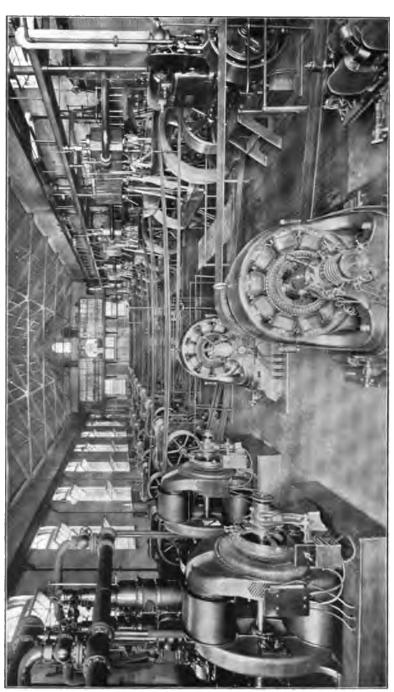
- 2 165 feet in height.
- I 160 feet in height.
- 124 150 feet in height.
 - 2 125 feet in height.
 - 8 100 feet in height.

Total..137



CRANE FIXTURE.





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Cost of The City Lighting Plant.

The city's investment proportioned between the incandescent and an lighting on the basis of the electrical output is as follows:

	Arc.	Incandescent.	Total.
*Conduits\$	83,557.44	\$ 8,825.99	\$ 92.38343
Cables	49,609.84	5,760.31	55,370.15
Buildings and wharf	99,894.02	10,310.94	110,204.90
Real estate	57,222.81	5,902.19	63,125.00
Machine shop	7,263.88	750.28	8,014.16
	130,815.93	13,817.14	144,633.07
Towers and lamp posts	97,755.04	• • • • • • •	97,755.04
Steam plant	102,051.55	10,5 7 9. 37	1 1 2,630 .92
Electric plant, arc	60,949.12		60,949.12
Electric plant, incandescent		13,631.84	13,631.84
Railway tracks and scales	9,955.43	1,026.88	10,982.31
Arc lamps	55,678.62		55,678.62
Totals\$	754,753.68	\$70,604.94	\$825,358.62
Belle Isle, lines, cables, lamps, etc			26,296.21
Grand total		• • • • • • • • • • • • • • • • • • • •	\$851,654.83

^{*}About one-quarter of these are occupied.

Cost Reduced to a Lamp Basis.

Reducing the above investment, exclusive of the Belle Isle, to the amount per lamp on the basis of the electrical capacity of the plant, viz.: 2,375 arc of 2,000 candle power, and 3,500 incandescent of 16 candle power, and we have the following:

	Arc.	Incandescent.
Conduits occupied	\$ 8.80	\$.63
Cables	20.89	1.65
Real estate	24.09	1.69
Buildings and wharf	42.06	2.95
Lines and poles	55.08	3.95
Towers and lamp posts	41.16	
Arc plant	25.66	
Incandescent plant		3.89
Steam plant	42.97	3.02
Railway track and scales	4.17	.29
Machine shop	3.10	.21
Arc lamps and switches	23.44	••••
Totals	\$291.42 Digitized I	\$18.28

Public Lighting System Investment.

To June 30, 1901.

To June	30, 1901.				
The amount expended for investment accounts during the periods specified were as follows:					
Prior to Jun	e Year	Year	Total to		
30, 1899.	189 9 .	1900.	June 30, '01.		
Conduits \$ 86,558.20		\$ 1,658.26	\$ 92,383.43		
Cables 37,187.04		17,073.68	55,370.15		
Real estate 63,125.00			63,125.00		
Buildings and whart 110,004.50		200.46	110,204.96		
Lines and poles 136,063.48		3,297.80	144,633.07		
Towers and lamp posts. 97,436.95		218.50	97,755.04		
Arc plant 60,885.73		58.39	60,949.12		
Incandescent plant 13,404.03	78.13	149.68	13,631.84		
Steam plant 111,847.47 Railway track and scales. 10,982.31	2.40	781.05	112,630.92 10,982.31		
Machine shop 8,014.16			8,014.16		
Arc lamps and switches. 54,066.59		15.60	55,678.62		
Belle Isle plant 24,228.01		113.41	26,296.21		
Totals \$813,803.47	\$14,284.53	\$23,566.83	\$851,654.83		
Depreciation	n Account.				
DEI	BITS.				
To investment prior to June 30, 189	7 		.\$729,222.73		
To investment during year to June	30, 1898		. 60,923.00		
To investment during year to June					
To investment during year to June	30, 1900		. 14,284.53		
To investment during year to June	30, 1901		23,566.83		
Total amount charged to investment\$851,654.83					
CON	TRA.				
(See introductory remarks in annual report of years referred to.) By amount added to cost of lights for depreciation prior to June					
30, 1897					
By amount added to cost of lights for	r depreciatio	n ye <mark>ar</mark> endin	g .		
June 30, 1898					
By amount added to cost of lights for					
June 30, 1899			. 22,534.71		
By amount added to cost of lights for					
June 30, 1900 By amount added to cost of lights for					
June 30, 1901					
		• • • • • • • • • • •	. 22,325.01		
Total amount added to cost of lig Balance present investment June 30,	ghts for depre	eciation	.\$129,793.27		

Arrangement of Arc Lamps.

The lighting of the city is done exclusively by means of arc lamps of 2,000 candle-power. The lights are placed on towers, posts and center suspensions, as the conditions demand. The 2,042 arc lamps in operation on June 30th, 1901, were distributed in 1,714 locations, as follows:

955 cranes955	lamps.
152 center suspensions	"
297 mast arms297	(i
161 posts from underground161	"
4 posts from underground 8	••
*114 three-light towers342	6 •
22 four-light towers	••
I six-light tower 6	44
On tower at water works 4	"
On base of three towers	"
In six buildings	"
	2,042
Stock, not in operation 11	
Discarded	13
Total number of lamps	2,055

^{*}Twenty-nine of these should be four-light towers.

There being no appropriation allowed for new lamp locations for the fiscal year 1900, one lamp was removed from each of these towers to furnish pole lights needed in new residence sections of the city.

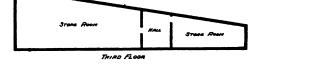
Ninety-eight tower lamps are on underground circuits.

Hours of Lighting.

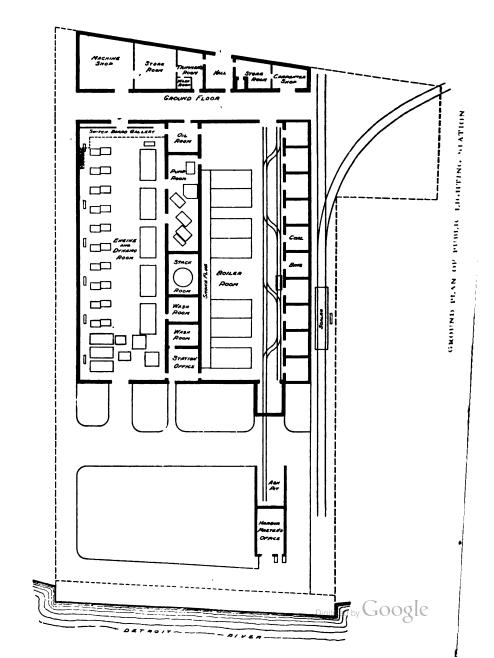
Month.	Total Hrs. Operated.	Av'ge Hrs. Operated.
July	. 228:15	7:22
August	. 264:10	8:32
September		9:52
October		11:26
November	. 377:00	12:34
December	. 408:45	13:11
January		12:55
February		11:52
March	. 329:50	10:39
April		9:11
May		7:56
June	. 217:40	7:02

	North C	
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					- CB - IB - L				
Ward.	Population,	Acreage.	Assessedivalue of Real Estate.	Total L. Ft.	Total Miles.	EETS Paved L. Ft.	Paved Miles.	Lam Arc. Be	ips. ernstein
City.	City315,115	17,564.67	\$175,766,620	2,764,933	523.86	1,416,530	268.22	1,956	13
			EAS	_	VARD.				
I	16,557	1,072.39	\$ 31,360,350	177,150	33.55	139,400	26.40	214	3B.
လ	19,248	736.23	7,471,810	126,678	23.99	77,200	14.60	108	
ιν	21,325	636.36	6,712,550	116,720	22.10	79,820	15.11	104	
7	18,931	666.48	5,857,250	112,243	21.25	64,945	12.30	95	
6	29,636	875.73	7,145,220	156,240	29.59	66,175	12.53	113	2B.
11	20,211	646.14	5,882,070	134,175	25.41	69,525	13.17	100	
13	16,446	1,070,1	6,025,110	165,685	31.37	61.375	11.62	95	
15	10,433	1,151.54	6,144,520	163,053	30.97	64,850	12.28	75	
17	11,728	2,560.00	8,083,060	344,539	65.25	55,700	10.55	8	
Total	Total164,515	9,415.48	\$ 84,681,940	1,496,483	283.48	678,990	128.56	1,000	พ
			WES	T OF WOOD	WARD.				
8	12,656	. 836.96	\$ 36,912,760	141,784	26.85	124,350	23.55	169	2B.
4	18,094	937.44	13,490,820	159,629	30.24	119,220	22.58	127	2B.
9	20,861	780.58	8,756,350	132,552	25.10	100,925	19.11	112	
∞	20,292	62:166	8,285,830	179,086	33.91	106,630	20.19	123	2B.
10	24,258	89.626	7,166,480	139,685	26.64	109,450	20.73	118	2 B.
2 0	19,440	990.79	5,792,210	130,930	24.79	72,885	13.80	105	
) <mark>Z</mark> ti	14,869	1,175.36	5,813,380	160,499	30.39	70,520	13.35	112	
72 1 b	20,130	1,456.59	4,866,850	224,235	42.46	33,560	6.35	8	
Total.	Total150,600	8,149.19	\$ 91,084,680	1,268,450	240.38	737,540	139.66	956	∞
and single in the single interest in the single interest in the single interest in the single in the single interest in the single interest in the single in	Samps in Wards as per on Belle Isle and in Water Works in Buildings	her abovend Bridge						1956 62 14 10	13
	Total N	umber of Lam	Total Number of Lamps in Operation.					2042	13



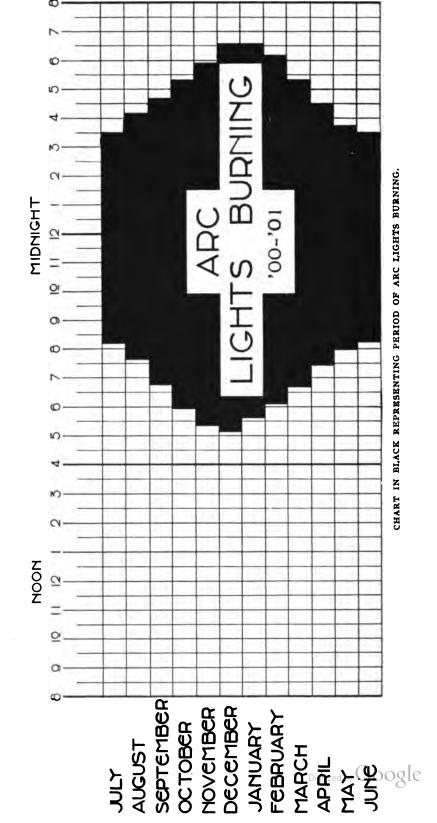




Public Buildings Lighted.

The public buildings lighted by incandescent lights and the number of 16 candle-power lamps in each, are as follows: Public Lighting Station and Offices..... 400 City Hall and County Offices....*1,631 Public Library 948 Municipal Court Building..... 287 Board of Health Offices..... 53 Police Headquarters, Central Station..... 201 Police Headquarters, East Side..... 108 Police Headquarters, West Side..... 69 Woodbridge Street Police Station..... 28 Police Barns 86 Water Board Offices 132 Fire Department Headquarters, Engine No. 1...... 144 Fire Department, Telegraph Station..... 81 Engine House No. 2..... 40 3..... Engine House No. 33 Engine House No. 38 Engine House No. 32 Engine House No. 9...... 26 Engine House No. 11..... 16 Hook and Ladder House No. 2..... 16 Hook and Ladder House No. 5..... 53 Board of Education Offices..... 163 Washington Normal School..... 71 Everett School 85 Norvell School 114 Capitol Square Fountain..... 23 Water Works Storage Grounds..... 39 House of Correction 750 G. A. R. Building..... 294 Department of Public Works, Eastern Yard..... 11 Washington Park Fountain 38 Russell School 8 Belle Isle Park-Bicycle Shelter 67 Boat House 32 Detroit Boat Club160 Casino193 Dock Park Barn107 Police Station 48 Miscellaneous 41 Yacht Club 64 Total Lamps

*This includes 678 lamps used in decorating, and in "Welcome" signs, operated on an average of three nights a week.



Lamps and Lamp Hours Operated.

The average number of lamps operated each month, with the total lamp hours scheduled, and the lamp hours "Out" during that time, are as follows:

Twelve Months to June 30, 1901.

			Total La	mp
A	verage Number	Total Lamp Hours	Hours C	Out.
	Lamps.	Scheduled.	Hrs. N	
July	2,007	454,539	141	37
August	2,030	532,085	271	12
September	2,031	595,144	939	43
October	2,027	711,939	497	21
November	2,028	700,290	327	
December		827,530	206	53
January	2,045	813,855	325	33
February	2,044	676,355	264	44
March		671,919	231	21
April	2,040	561,507	457	OI
May	2,037	501,363	308	46
June	2,050	445,207	121	08
Totals	2,035	7,551,732	4,092	19

The corresponding for the 12 months ending June 30, 1900, is as follows:

Twelve Months to June 30, 1900.

Aver	age Number Lamps.	Total Lamp Hours Scheduled	Total La Hours C Hrs. M	ut.
July	. 1,938	446,507	127	35
August	. 1,937	505,193	194	30
September	. 1,951	576,136	951	37
October	. 1,950	686,667	1,417	08
November	. 1,956	749,171	944	31
December	. 1,963	811,979	592	52
January	. 1,967	786,041	448	25
February		651,192	182	12
March		643,851	462	05
April		537,681	506	24
May		470,020	172	17
June		410,312	139	19
Totals	. 1,963	7,274.75	6,138	<u></u> 55

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Causes of Lamp Hours Out.

The causes of "Lamp Hours Out" for the year ending June 30th, 1901, are summarized as follows:

Month.		Line. Trouble.		Lamp rouble.		Frimmers' Negl e ct.	To	otal.
	Lm ps .	Hrs.Min.	Lmps.	Hrs. Min.			Lmps.	Hrs. Min.
1900.								
July,	4	16:30	9	30:39	22	94:28	35	141:37
August,	, 14	33:30	50	150:30	29	87:12	93	271:12
Sept.,	14	118:00	140	555:13	66	266:30	220	939:43
Oct.,	9	62:21	40	237:00	33	198:00		497:21
Nov.,	6	44:00	20	126:30	2 6	156:30		327:00
Dec.,	7	46:00	30	120:23	9	40:30	46	206:53
1901.								
Jan.,	12	60:06	24	222:57	7	42:30	43	325:33
Feb.,	II	85:20	20	139:06	5	40:20	36	2 64:46
March	10	7 0:30	17	104:30	8	56:21	35	231:21
April	6	24:51	91	411:00	7	21:10	104	457:01
May,	7	15:46	64	257:00	9	3 6:00	8o	308:46
June,	10	50:00	11	71:08	• •	:	21	121:08
Total	110	626:54	516	2,425:56	221	1,039:31	847	4.092:21
1900,	42	138:56	818	4,151:47	498	1,848:12	1,358	6,138:55
1899,	487			1,196:52	222	1,197:39		5,039:43
1898,	1,479			772:01	214	1,087:09	1,822	7,465:23
1897,	108			358:15	88	609:10	242	1,371:07

Trimming Arc Lamps.

The work of trimming arc lamps is intrusted to the care of a head trimmer and 19 men. All the single carbon Adams-Bagnall lamps are located in the underground district, which is in the half-mile circle, and are trimmed daily. The balance are Brush double carbon lamps, supplied with current from overhead lines, and are trimmed every second day. These overhead lines are supplied from the station by trunk lines, one-half of which are underground through the half-mile circle.

Circuit.	Towers.	Tower Lamps.	Pole Lamps.	Cranes.	P. L. C. Mast Arms.	Center Sus- pensions.	Lamps in Bldgs.	Total No. of Lamps.	Miles.	Trim- mers No.
I	8	33	48	3	• • •	•••		84	4.8	1
2	11	39	34	5			7	85	4.5	2
3	2	7	34	16	14	6		77	4.8	3
4	2	7	• •	15	28	7		<i>57</i>	5.5	
6	2	6	• •	22	20	7		55	5⋅3	4
5	2	6	• •	38	5	8		5 7	4.7	
7	1	3		45	9	6		63	5.0	5
8	2	7	• •	26	12	ΙI	• •	56	5.1	_
10	2	6	• •	27	10	12	• •	55	4.9	6
9	2	6	• •	27	17	7		5 <i>7</i>	4.4	
11	3	9	• •	22	18	6	• •	5 5	5.2	7
12	6	19	• •	12	20	6	• •	5 <i>7</i>	6.9	_
14	3	9	• •	25	17	6	• •	5 7	6.3	8
13	I	3	• •	40	9	2	• •	54	5.8	
15	6	19	• •	22	14		• •	55	6.9	9
16	6	18	• •	25	8	3	• •	54	6.8	
18	4	12	• •	33	2	• •	• •	47	<i>7</i> ⋅5	10
17	I	3	• •	43	3	• •	• •	49	9.4	
19	7	21	• •	31	• •	• •	• •	52	7.6	ΙI
20	5	16	• •	21	13	5	• •	55	6.3	
22	4	13	I	23	8	8	• •	53	6.5	12
21	2	6	• •	24	15	9	• •	54	5.9	
23	2	6	• •	30	12	7	• •	55	6.6	13
24	4	12	• •	33	5	5	• •	55	7.6	
26	8	25	• •	25	• •	3	• •	53	7.4	14
25	4	12	• •	35	6	• •	• •	53	6.1	
27	3	9	• •	2 8	12	I	• •	50	6.5	15
28	4 ,	14	••	25	8	6	• •	53	7.3	_
30	5	15	• •	29	5	6	• •	55	7.8	16
29	5	15	• •	28	• •	10	• •	53	8.5	
31	2	8	8	35	• •	4	2	5 <i>7</i>	9.3	17
32	5	18	1	24	7	: •	• •	50	7.7	•
34	6	18	• •	31	• •	1.	• •	50	8.2	18
33	4	12	• •	38	• •	• •	• •	50	8.5	
35 Easte	3 rn	9	••	39	• •	• •	• •	48	8.2	19
Mark Bell e		• •	••	• •		• •	4	4 Digitized I	oy Gö	ogle
ısle	2	6	43	6			13	68	• • •	20

Comparative Kilowatt Hour Output..

Twelve Months to June 30, 1901.

Month.	Arc.	Incan.	Total.
July	211,355	33,804	245.159
August	247,400	36,234	283,634
September	276,737	36,012	312,749
October	327,436	41,884	369,320
November	345,624	47,046	392,6 7 0
December	376,516	47,685	424,201
January	370,298	51,690	421,988
February	307,734	41,464	349,198
March	305 <i>,7</i> 07	44,526	350,233
April	257,182	40,576	297,758
May	236,917	39,348	276,265
June	212,483	37,692	250,175
Totals	3.475,389	497,961	3,973,350

Twelve Months to June 30, 1900.

Month.	Arc.	Incan.	Total.
July	205,387	28,114	233.501
August	232,381	30,694	263,075
September	264,991	34,126	299,117
October	315,870	38,194	354,064
November	340,878	43,522	384,400
December	369,451	48,632	418,083
January	357,628	50,104	407,732
February	2 96,284	42,581	338,865
March	292,947	41,072	334,019
April	244,645	35,308	279,953
May	216,205	35,814	252,019
June	190.786	33,436	224,222
Totals 3	,327,453	461,597	3,789,050

Comparative Amount of Coal Consumed.

The total amount of coal consumed during the year, and the same reduced to the number of pounds per kilowatt hour with comparisons as follows:

	~Year ending Ju	ine 30, 1901.—	Year to June 30, 1900.	Year to Tune 30, 1800.	Year to Tune 30, 1898.
Month.	Pounds coal consumed.	Pounds per Kil. hr.	Pounds per Kil. hr.	Pounds per Kil. hr.	Pounds per Kil. hr.
July	1,156,410	4.72	5.14	5.79	5 53
August	1.356.180	4. <i>77</i>	4.78	5.55	5.40
September	1,439.850	4.60	4.04	5.30	4.72
October	1,715,830	4.65	4.27	5.21	5.07
November	1,840,220	4.69	3.98	4.75	4.96
December	1,885,220	4.44	3.97	4.64	4 76
January	1,856,780	4.40	3.90	4.75	5.42
February	1.705,540	4.88	4.17	4.90	5.10
March	1,717,750	4.90	4.39	5.17	5.27
April	1,509,490	5.00	4.57	5.41	5.24
May	1,436,840	5.20	4.66	5.30	5.57
June	1,306,170	5.22	4.69	5.58	5.76
Totals	18,926,280	4.80	4.38	5.19	5.23
Year to June 30,	Lbs. 16.741.070				

rear to June 30,	Lbs.
1900	16,741,070
Year to June 30,	
1899	18,166,430
Year to June 30,	
1898	17.075.525
Year to June 30,	
1897	15,032,230
Year to June 30,	
1896	13,114,531

Cost of Coal.

The prices paid per ton of 2,000 lbs. for coal, delivered on Public Lighting Commission side track, weights guaranteed, were:

Year ending June 30, 1896—Jackson Hill Lump	\$2.19
Year ending June 30, 1897—Jackson Hill Lump	2.12
Year ending June 30, 1898—Jackson Hill Lump	1.97
Year ending June 30, 1899—Jackson Hill Lump	1.97
Year ending June 30, 1900—Pocahontas Smokeless	1.99
Year ending June 30, 1901—West Virginia Lump Digitized by Car.O.O.	₹ 2.20

Inside Wiring Inspection Department.

The work of the department having in charge the inspection of include electrical wiring and apparatus for the year ending June 30, 1901, was a follows:

Month of	Number of Applications for and Per- mits Issued.	Number of Approvals and Certificates Issued.	Amount of Fees Collected.	Expense
July	. 196	200	\$ 227.05	\$ 108 -
August	. 211	210	220.25	1913-
September	. 267	215	236.75	1772
October	. 363	342	277.25	105
November	. 294	320	259.00	100
December	. 239	296	352.75	105 -
January	. 212	199	179.25	20:
February	. 184	213	203.25	1007-
March	. 224	199	215.50	20,
April	. 259	234	269.25	178
May	. 253	248	231.50	173
June	. 265	24 I	229.25	174.5
Totals	. 2.967	2,917	\$2,901.05	\$2,260

Twelve Months to June 30, 1900.

Month of	Number of Applications for and Per mits Issued.	Number of Approvals and Certificates Issued.	Amount of Fers Collected.	Expenses.
July	. 193	207	\$ 271.00	\$ 18082
August		174	168.25	1807
September		253	332.00	200.2
October		299	269.25	180.3
November		296	302.00	20 000
December		289	261.00	263.
January		247	196.00	2 04.07
February		184	191.00	181%
March		233	232.95	173:32
April	-	202	190.50	18432
May		225	226.50	160.82
June		22 I	229.75	172.57
Totals	. 2,946	<u> </u>	\$2,870.20	\$2,306.00



Employes and Compensation.

The employes of the Public Lighting Commission on June 30, 1901, were as follows:

Executive:	Rate per Year.	Rate per day and 7 days per week.	Rate per day and 6 days per week.
I Secretary\$	1,200.00		• • • •
I General Supt			
	1,200.00		
I Storekeeper	420.00		
I Superintendent's clerk	600.00		
I Janitor			\$1.60
I Draughtsman	660.00	• • • •	• • • •
7			
Inspection Department:			
I Inspector\$	1,350.00	• • • •	
1 Permit clerk	720.00	• • • •	• • • •
2			
Station:			
I First engr. and machinist		\$3.00	
2 First engineers, each		3.00	
3 Second engineers, each		2.00	
7 Firemen, each	• • • •	1.75	
I Coal passer		1.75	
6 Oilers, each		1.75	
1 Handy man	720.00	-75	
3 Operating electricians, each.		2.50	
3 Switch tenders, each		1.50	
6 Laborers, each		••••	1.50
			3-
33			
Lighting:			
1 Head trimmer	900.00	• • • •	• • • •
19 Trimmers, each		2.00	• • • •
2 Patrolmen with horse and			
buggy, each		3.25	
1 Patrolman		• • • •	3.25
1 Belle Isle man	900.00		• • • •
_			\sim 1

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Employes and Compensation—Continued.

Maintenance and Repairs:	Rate per Year.	Rate per day and 7 days per week.	Rate per day and 6 days per week.
1 Blacksmith			2.50
I Blacksmith's helper			1.00
I Carpenter			2.25
1 Painter			2.00
1 Lathe man			2.50
I Steamfitter		• • • •	2.75
1 Foreman lamp and cable			
department			2.50
2 Helpers in lamp room, each.		• • • •	2.00
1 Helper in lamp room			1.50
1 Apprentice in lamp room		• • • •	1.00
1 Apprentice in lamp room			.50
I Conduit man		• • • •	2.50
I Conduit helper	• • • •		1.50
1 Line foreman			3.00
4 Linemen, each		• • • •	2.50
1 Line gang helper			1.75
1 Wireman			2.50
5 Laborers, each	• • • •	• • • •	1.50
-			
2 6			

Total employes, 92

One day's work consists of 8 hours, proportionate wages for overtime. Employes paid by the yearly rate are allowed no overtime.

Comparative Cash Cost of an Arc Light.

The year's operating expenses can be divided between the arc and the incandescent in proportion to the electrical output. That chargeable to arc lighting would be \$86,675.58, which amount reduced to the cost of an arc lamp for one year shows the following relative figures:

Department.	Wages.	Stores.	Total.
Maintenance	\$ 4.85	\$ 2.95	\$ 7.8o
Executive	2.93	. 4 9	3.42
Station	9.21	9.81	19.02
Lighting	7.80	4.41	12.21
Shop supplies		.05	.05
Surgeon and hospital	.02	.07	.09
Totals	\$24.81	\$17.78	\$42.59

The corresponding figures for the twelve months ending June 30, 1900, are as follows:

Department.	Wages.	Stores.	Total.
Maintenance	\$ 4.51	\$ 1.96	\$ 6.47
Executive	3.27	.46	3.73
Station	9. 38	8.25	17.63
Trimming	<i>7</i> ·33	. 4.88	12.21
Shop		.06	.06
Injuries and damages	.06	.14	.20
Totals	\$24.55	\$15.75	\$40.30

The corresponding figures for the twelve months ending June 30, 1899, are as follows:

Department.	Wages.	Stores.	Total.
Maintenance	\$ 5.87	\$ 2.50	\$ 8.37
Executive	3.56	.37	3 .93
Station	10.32	9.51	19.83
Trimming	10.20	3.91	14.11
Shop		.05	.05
Injuries and damages	.03	.14	.17
Totals	\$29.98	\$16.48	\$46.46
Twelve months to June 30, '98.	\$33.27	\$ 18.58	\$51.85
Twelve months to June 30, '97.	43·5 <i>7</i>	20.62 ized by	G06419

Comparison of Operating Disbursements.

The operating disbursements for the year ending June 30, 1901, in the various departments, if partitioned between wages and stores, will show the following division on the basis of each \$100.00 expended:

Department.	Wages.	Stores.	Total.
Maintenance	\$11.38	\$ 6.92	\$18.31
Executive	6.89	1.16	8.05
Station	21.62	23.04	44.66
Trimming	18.29	10.36	28.65
Shop		.II	II.
Injuries and damages	.05	.17	.22
Totals	\$58.24	\$41.76	\$100.00

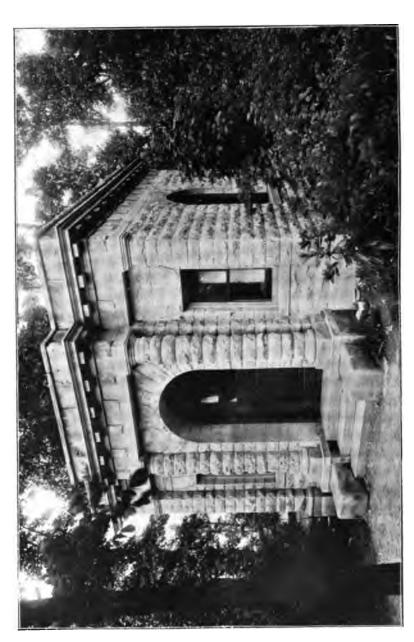
The corresponding figures for the twelve months ending June 30, 1900, are:

Department.	Wages.	Stores.	Total.
Maintenance	\$11.18	\$ 4.87	\$ 16.05
Executive	8.11	1.13	9.24
Station	23.28	20.47	43.75
Trimming	18.21	12.11	30.32
Shop		.15	.15
Injuries and damages	.16	-33	.49
Totals	\$60.94	\$39.06	\$100.00

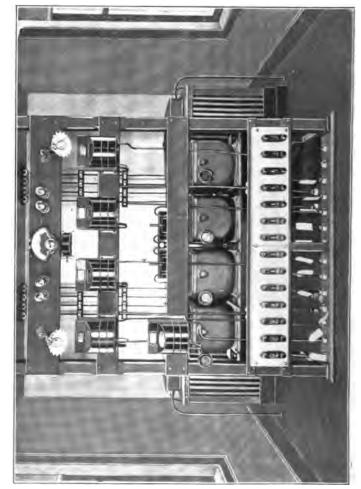
The corresponding figures for the twelve months ending June 30, 1899, are:

Department.	Wages.	Stores.	Total.
Maintenance	\$12.57	\$ 5.44	\$ 18.01
Executive	7.65	.81	8.46
Station	22.21	20.46	42.67
Trimming	21.95	8.41	30.36
Shop		.12	.12
Injuries and damages	.06	.32	.38
Totals	\$ 64.44	\$35.56	\$100.00
Year ending June 30, 1898	\$64.16	\$35.84	\$100.00
Year ending June 30, 1897	67.89	32.II	





TRANSFORMER HOUSE-BELLE ISLE PARK.



INTERIOR TRANSFORMER HOUSH-HHLLE ISLE PARK.

Cost

Cash Cost of Operation—July, 1900.

Output this month.. 245,149 K. W. Hours Output July, 1899... 233,501 K. W. Hours

		43	m . 1	Cost
	Wages.	Stores.	Total. pe	
Maintenance:				Hour.
Bldgs., track, dock, etc\$	78.00	\$ 24.11	\$ 102.11	
Steam plant	106.26	129.84	236.10	
Electric plant	29.97	9.03	39.00	
Miscel. tools and mach'y	82.16	24.87	107.03	
Conduits	15.25	• • •	15.25	
Towers and lamp posts	192.71	90.06	282.77	
Arc lamps	247.30	70.70	318.00	
Lines and cables	351.26	35.95	387.21	
Lines and capies	351.20	35.95	307.21	
Total maintenance\$ Executive:	1,102.91	\$ 384.56	\$1,487.47	.00607
Salary Sec'y and City Elec\$	266.66		\$ 266.66	
Printing and stationery		\$ 17.13	17.13	
Store room	75.00		75.00	
Office	95.00	15.54	110.54	
Superintendence	150.00		150.00	
	- 3 - 1			
Total executive\$	586.66	\$ 32.67	\$ 619.33	.00253
Oils		\$ 78.49	\$ 78.49	.00032
Waste		19.43	19.43	.cooo8
Coal		1,158.38	1,158.38	.00473
Miscellaneous supplies		84.37	84.37	.00034
Wages\$		• • • • •	1,787.75	.00729
- Truges	1,707.73			
Total station\$	1 787 75	\$1,340.67	\$3,128.42	.01267
Ligting:	1,707.73	ψ1,340.07	Ψ3,120.42	.01207
Trimming and patrolling\$	1 220 40		\$1.220.40	
Carbons			\$1,320.49	•
	• • • •	\$ 434.42	434.42	• • • •
Incandescent renewals		89.30	89.30	
Incand. lighting expense	5.11	.21	5.32	• • • •
Globes and nets	• • • •	77.09	77 .09	• • • •
Miscellaneous supplies		.49	.49	• • • •
Belle Isle Park	84.43	9.52	93.95	
Total lighting\$	1,410.03	\$ 611.03	\$2,021.06	.00824
Shop supplies		\$ 3.10	\$ 3.10	10000.
Surgeon and hospital				.00000
-				
Total operating expense\$	4.887.35	\$2,372.03	\$7,259.38	.02961
July, 1899, was\$		\$2 ,144.93	\$6,404.67	002743
July, 1898, was	5,173.50	2,566.39	7,739.89	.03680
July. 1897, was	5.952.55	2,525.20	8.477.75	.0452
• •		- ·		

Cash Cost of Operation—August, 1900.

Output this month, 283,634 K. W. Hours. Output August, 1899, 263,075 K. W. Hours.

Cost

	***	13.	Т-4-1 -	C 08t
36.1.4	Wages.	Stores.	Total. p	er K. W. Hour
Maintenance:	ф .a=a	¢ 004.90	¢ 069 =0	
Bidgs., track, dock, etc		\$ 924.89	\$ 968.59	• • • •
Steam plant	100.11	145.19	245.30	• • • •
Electric plant	30.70	1.38	32.08	• • • •
Miscel. tools and mach'y	109.03	31.53	140.56	• • • • •
Conduits	.87	1.20	2.07	• • • •
Towers and lamp posts	213.56	96.86	310.42	• • • •
Arc lamps	318.03	78.61	396.64	• • • •
Lines and cables	286.56	117.94	404.50	
Total maintenance	\$1,102.56	\$1,397.60	\$2,500.16	.00882
Salary Sec'y and City Elec	\$ 266.66	• • • •	\$ 266.66	• • • •
Printing and stationery		\$ 91.43	91.43	• • • •
Store room	80.98	• • • •	80.98	
Office	85.20	32.90	118.10	
Superintendence and drafting	154.00	8.00	162.00	
Total executive	\$ 586.84	\$ 132.33	\$ 719.17	.00253
Oils		\$ 82.36	\$ 82.36	.00020
Waste		19.74	19.74	.00007
Coal		1,463.92	1,463.92	.00510
Miscellaneous supplies		96.45	96.45	.000,14
Wages		••••	1,803.68	.00636
Total station	\$1,803.68	\$ 1,662.47	\$3,466.15	.01222
Trimming and patrolling	\$1,324.78		\$1,324.78	
Carbons		\$ 553.09	553.09	
Incand. renewals		91.56	91.56	
Incand. lighting expense	8.23		8.23	
Globes and nets		90.41	90.41	
Miscellaneous supplies		49.02	49.02	
Belle Isle Park	86.12	••••	86.12	••••
Total lighting	\$1.410.13	\$ 784.08	\$2,203.21	.00777
Shop supplies		\$ 10.28	\$ 10.28	.00003
Surgeon and hospital\$	1750	95.75	113.25	.00040
<u>-</u>				
Total operating expense\$	54,929.71	\$4,082.51	\$9,012.22	.03177
August, 1899, was\$		\$2.546.7 _{7 jeit} i	\$7.Ц3 00	02703
August, 1898, was		2,885.42	8,108.89	.03287
August, 1897, was	5,350.85	2,661.68	8,012.53	.03784

Cash Cost of Operation—September, 1900.

Output for this month.... 312,749 K. W. Hours Output September, 1899.. 299,117 K. W. Hours

Output September, 1	899 29	99,11	7 K. W	. п	ours	~
						Cost
•	Wages.	9	Stores.		Total.	per K. W.
Maintenance:						Hour.
Bldgs., track, dock, etc\$	25.01			\$	25.01	
Steam plant	97.48	\$	121.71		219.19	
Electric plant	34.71	•	11.35		46.06	
					-	
Miscel. tools and mach'y	71.87		61.40		133.27	• • • •
Conduits	27.I <i>2</i>		.87		27.99	• • • •
Towers and lamp posts	227.14		164.99		392.13	
Arc lamps	224.54					
			79.59		304.13	
Lines and cables	462.52		167.60		630.12	
		_				
Total maintenance\$1	,170.39	\$	607.51	\$1	,777.90	.00569
Executive:						
Salary Sec'y and City Elec\$	266.66			\$	266.66	
		œ		Ψ		
Printing and stationery	• • • •	\$	8.93		8.93	• • • •
Store room	<i>75</i> .3 <i>7</i>				<i>75</i> .37	
Office	64.00		13.45		77.45	
Superintendence and drafting	150.00		12.90		162.90	
			12.90		102.90	• • • •
Total executive\$	6 00	¢	05.00	4	507.07	22.02
	550.03	\$	35.28	Ф	591.31	.00189
Station:						
Oils		\$	80.69	\$	80.69	.00026
Waste			19.11		19.11	.00006
Coal			,583.84			
	• • • •			1	,583.84	.00507
Miscellaneous supplies	• • • •		102.08		102.08	.00031
Wages\$1	,724.98			I	,724.98	.00552
Total station\$1	.724.08	\$ 1	,785.72	\$3	,510.70	.01122
Lighting:	4 17	•	,, - 5 , -	7.0	.,5 ,7 -	
				•	~	
Trimming and patrolling\$1	,301.48		• • • •	\$1	,301.48	
Carbons		\$	699.37		699.37	
Incand. renewals		•	112.66		112.66	
Incand. lighting expense	19.75		-44		20.19	• • • •
Globes and nets			71.53		71.53	
Miscellaneous supplies			31.83		31.83	
Belle Isle Park	83.13				92.50	
Dene Isie Tark	03.13		9.37		92.50	• • •
Total lighting C.	6	•		Ф-		
Total lighting\$1	.404.30		925.20		,329.56	.00745
Shop supplies	• • • •	\$	3.06	\$	3.06	10000.
Surgeon and hospital			21.00		21.00	.00007
						
Total operating expense\$4	.855.76	\$2	377.77	\$2	,233.53	.02633
	,-55,75	43		Ψ0	,-33.33	.02033
September, 1899. was\$4	427 Q1	¢2	676.14	¢-	112.05	02256
				Ψ/	113.95	02378
September, 1898, was 5		2,	775.18		.864.54	.02833
September, 1897, was 5	,363.06	3.	012.72	8.	375.78	.03459
		3	•			0.07

Cash Cost of Operation-October, 1900.

Output this month..... 369,320 K. W. Hours
Output October, 1899... 354,064 K. W. Hours

Cist

		-		_		C 19.
	Wages.	5	Stores.	Tota	1 . j	per K. W
Maintenance:						Heat
Bldgs., track, dock, etc	27.52	\$	77.92	\$ 105		
Steam plant	103.00		117.82	220.		
Electric plant	24.84		261.55	286.		• • • •
Miscel. tools and mach y	45.46		10.87	56.	33	
Conduits	19.95			19.	95	
Towers and lamp posts	211.90		61.40	273.		
Arc lamps	149.07		53.09	202.		• • •
Lines and cables	452.71		35.17	487.	88	• • • •
Total maintenance	\$1.034.45	\$	617.82	\$1,652.	<u>-</u> 7	.00448
Salary Sec'y and City Elec	266.66			\$ 266.	66	
Printing and stationery		\$	485.51	485.	51	
Store room	89.13			89.	13	
Office	65.90		11.55	77-		
Superintendence and drafting	153.50		59.00	212.		• • • •
Total executive	5 579.19	\$	556.06	\$1,131.:	25	.003ch
Oils		\$	67.40	\$ 67	10	.000.8
Waste		1	20.13	20.		.0000
Coal		1	,887.41	1,887	_	.00511
Miscellaneous supplies			00.101	101.		.00028
Wages				1,841.		.00448
Total station	\$1,841.01	\$2	2,075.94	\$3,916.	<u> </u>	.01010
Trimming and patrolling	\$1.379.47			\$1,379	1 7	
Carbons		\$	839.69	839.	59	
Incand. renewals			145.96	145.9	96	
Incand. lighting expense	28.87		7.09	35.	96	
Globes and nets			78.84	78.	34	
Miscellaneous supplies			28.03	28.	03	• • • •
Belle Isle Park	109.31		2.60	111.	91	•••
Total lighting	\$1,517.65	\$1	,102.21	\$2,619.	 36	.00710
Shop supplies		\$	5.08	\$ 5.0	8 c	.00001
Surgeon and hospital			2.00	9.	B7	.00003
Total operating expense	\$4.976.17	\$ 4	,359.11	\$9.335	<u>-</u> 28	.02528
October, 1899, was	\$4.558.39	\$3	3,260.89	\$7,819.		.0220X
October, 1898, was		3	,244.40git	ized 8,781	25)8	31.02698
October, 1897, was			.091.68	8,300.0		.02824

Cash Cost of Operation—November, 1900.

Output this month...... 392,670 K. W. Hours Output November, 1899... 384.400 K. W. Hours Cost Total. per K. W. Wages. Stores. Maintenance: Hour. Bldgs., track, dock, etc.....\$ 30.61 19.52 50.13 Steam plant 85.20 191.95 277.15 Electric plant 40.56 9.29 49.85 Miscel. tools and mach'y.... 105.88 51.75 54.13 Conduits 21.13 .84 21.97 381.66 Towers and lamp posts..... 287.87 93.79 Arc lamps 173.83 55.64 229.47 Lines and cables..... 629.56 453.13 176.43 Total maintenance\$ \$ 795.67 \$1,745.67 950.00 .00444 Executive: Salary Sec'y and City Elec..\$ \$ 266.66 266.66 Printing and stationerv..... \$ 40.90 40.90 Store room 76.46 76.46 80.38 64.60 15.78 Superintendence and drafting 155.00 2.90 157.90 Total executive\$ 562.72 \$ 59.58 622.30 .00159 Station: 65.72 65.72 .00017 Waste 19.01 19.01 .00005 Coal 2,024.24 2,024.24 .00515 Miscellaneous supplies 111.06 111.06 .00028 Wages\$1,777.31 1,777.31 .00453 Total station\$1.777.31 \$2,220.03 .01018 \$3,997.34 Lighting: Trimming and patrolling....\$1,431.33 \$1,431.33 Carbons \$ 742.89 742.89 Incand. renewals 170.38 170.38 Incand. lighting expense.... 18.58 24.07 42.65 Globes and nets..... 90.13 90.13 Miscellaneous supplies 19.14 19.14 Belle Isle Park..... 86.36 9.37 95.73 Total lighting\$1,541.76 \$1,050.49 \$2,592.25 .00660 Shop supplies 15.26 15.26 .00004 Surgeon and hospital..... .00001 3.40 3.40 Total operating expense. .\$4,831.79 \$4,144.43 \$8,976.22 .02286 November, 1899, was.....\$4,669.91 \$7,967.84 \$3,297.93 .02073 November, 1898, was..... 5,503.55 8,826.99 3,323.44 .02455 November, 1897, was..... 5,125.03 3,265.06 8,390.09 .02490

Cash Cost of Operation—December, 1900.

Output this month...... 424,201 K. W. Hours Output December, 1899.. 418,083 K. W. Hours

			_			Cost
	Wages.		Stores.		Total.	per K. W
Maintenance:						Hour
Bldgs., track, dock, etc\$	19.70	\$	5.14	\$	24.84	ı
Steam plant	100.98	•	177.09	•	278.07	-
Electric plant	68.90		3.53		72.43	
Miscel. tools and mach'y	30.67		6.43		37.10	
Conduits	20.00		8.62		28.62	
Towers and lamp posts	171.68		29.48		201.16	
Arc lamps	224.84		38.94		263.78	
Lines and cables			454.58		872.12	
Ellies and cables	417.54		454.50	_		
Total maintenance\$ Executive:		\$	723.81	\$ 1	1,778.12	.004:-
Salary Sec'y and City Elec\$	266.66			\$	266.66	
Printing and stationery		\$	17.11		17.11	
Store room	91.16	•	2.12		93.28	
Office	64.00		4.78		68.78	
Superintendence and drafting.	155.00				155.00	
		_		_		
Total executive\$ Station:	576.82	\$	24.01		600.83	.00142
Oils		\$	73.05	\$	73.05	.0001,
Waste			22.23		22.23	.00005
Coal		2	,099.87	2	,099.87	.00405
Miscellaneous supplies			77.72		77.72	.00010
Wages\$	1,860.94		••••	I	,860.94	.00430
Total station\$ Lighting:	1,860.94	\$2	2,272.87	\$4	,133.81	.00975
Trimming and patrolling\$	1.441.85			\$1	,441.85	
Carbons		\$	765.66	Ψ-	765.66	
Incand. lamp renewals		Ψ	161.45		161.45	
Incand. lighting expense	28.21		3.17		31.38	
Globes and nets			51.76		51.76	
Miscellaneous			8.20		8.20	
	· · · · ·					
Belle Isle Park	<i>7</i> 6.75			_	<i>7</i> 6.75	
Total lighting\$		\$	990.24	\$2	,537.05	.0059 ⁸
Shop supplies		\$	1.97	\$	1.97	
Surgeon and hospital			26.00		26.00	.0000h
Total operating expense\$	5,038.88	\$4	,038.90	\$ 9	.077.78	.02140
December, 1899, was\$2	4,648.81	\$3	.234.26	\$7	.883.07	.01885
December, 1898, was			.195.68 _D	8 _{citio}	979.30	02323
December, 1897, was			,398. 78	8.	738.11	.02338
		J	•			•

Cash Cost of Operation—January, 1901.

Output this month..... 421,988 K. W. Hours Output January, 1900... 407,732 K. W. Hours

Output January, 1900 40	7,732 K, W.	nours	Cost
Wages.	Stores.	Total. p	
Maintenance:	Diores.	rotan p	Hour.
Bldgs., track, dock, etc\$ 42.15	\$ 50.94	\$ 93.09	
Steam plant 115.75	133.21	φ 93.09 248 .96	
Electric plant	159.70	201.60	
Miscel. tools and mach'y 58.51	47.32	105.83	
Conduits	21.81	64.81	
Towers and lamp posts 63.50	15.50	79.00	
Arc lamps 166.88	38.67	205.55	
Lines and cables 345.11	94.67	439.78	
		439.70	
Total maintenance\$ 876.80	\$ 561.82	\$1,438.62	.00341
Executive:		-((((
Salary Sec'y and City Elec. \$ 266.66	• • • •	2 66.66	• • • •
Printing and stationery	21.03	21.03	• • • •
Store room 87.90	3.00	90.90	• • • •
Office 66.00	27.44	93.44	• • • •
Superintendence and drafting. 155.00	1.00	156.00	
Total executive\$ 575.56	\$ 52.47	\$ 628.03	.00149
Station:			_
Oils	\$ 76.02	\$ 76.02	.00018
Waste	19.33	19.33	.00004
Coal	2,087.54	2,087.54	.00495
Miscellaneous supplies	137.97	137.97	.00033
Wages 1,874.48		1,874.48	.00444
Total station\$1,874.48	\$2,320.86	\$4,195.34	.00994
Lighting: Trimming and patrolling\$1,462.06		\$1,462.06	
Carbons	\$ <i>7</i> 84.01	784.01	
Incand. lamp renewals	92.19	92.19	
Incand. lighting expense 24.55	1.64	26.19	
Globes and nets	23.49	23.49	
Miscellaneous supplies	10.94	10.94	
Belle Isle Park 87.56		87.56	
Total lighting\$1,574.17	\$ 912.27	\$2,486.44	.00589
Shop supplies	\$ 22.10	\$ 22.10	.00005
Surgeon and hospital	ψ 22.10	φ <i>22.</i> 10	
			
Total operating expense\$4,901.01	\$3.869.52	\$8,770.53	.02078
January, 1900, was\$4.776.83	\$3.344.21	\$8,121.04	.01991
January, 1899, was 5,624.41	3.226.30	8,850.71	.02316
January, 1898, was 5.462.29	3,634.15	9.096.44	.02517

Cash Cost of Operation—February, 1901.

Output this month, 349.198 K. W. Hours. Output February, 1900, 338,865 K. W. Hours.

Cost

per K. W. Maintenance: Wages. Stores. Total. Hour. Bldgs., track, dock, etc.....\$ 61.02 21.80 82.91 Steam plant 59.02 68.45 127.47 Electric plant 79.60 .75 80.44 Miscel. tools and mach'y.... 58.72 5.74 64.46 Conduits *7*8.58 3.00 81.58 Towers and lamp posts..... 6.41 5.00 11.41 Arc lamps 206.84 236.97 30.13 Lines and cables..... 289.82 66.34 356.16 Total maintenance\$ 840.10 201.30 \$1,041.40 .00299 Executive: Salary Sec'y and City Elec..\$ 266,66 266.66 Printing and stationerv..... \$ 38.20 38.29 Store room 78.03 78.28 .25 66.82 62.60 4.22 Superintendence and drafting. 155.00 3.00 158.00 Total executive\$ 562.20 \$ 608.05 45.76 .00174 Station: Oils 64.51 64.51 (21000). Waste 18.01 19.81 .00006 1,876.00 1,876.00 .00537 Miscellaneous supplies 20.42 20.42 .00006 Wages 1,658.35 1,658.35 .00475 Total station\$1,658.35 \$1,980.83 \$3,639.18 .01043 Lighting: Trimming and patrolling....\$1,329.61 13.00 \$1,342.61 Carbons 684.41 684.41 Incand. lamp renewals..... 164.32 164.32 Incand. lighting expense.... 27.56 2.20 29.76 Globes and nets..... 36.71 36.71 Miscellaneous supplies 4.16 4.16 Belle Isle Park..... 78.87 78.87 Total lighting\$1,436.04 004.80 \$2,340.84 .00670 6.08 6.08 Shop supplies00002 Surgeon and hospital..... \$3,138.77 .02188 Total operating expense...\$4,496.78 \$7.635.55 \$2,085.78 .02163 February, 1900, was.....\$4,370.85 \$7.329.63 7.950.65 February, 1899, was..... 5,249.31 2,701.34 .02490 8,319.35 February, 1808, was..... 5,152.92 3,166.43 .02731 February, 1897, was..... 6.122.85 2,644.71 8,767.56 .03243

Cash Cost of Operation—March, 1901.

Output 11' mantle and	V W	II.	
Output this month 350 Output March, 1900 334	,233 K. W.	Hours	Cost
Output March, 1900 334	,,019 K. W.	ne	r K. W.
Maintenance: Wages.	Stores.	Total.	Hour.
Bldgs., track, dock, etc\$ 51.27	\$ 26.08	\$ 77·35	
Steam plant 91.15	253.39	344.54	
Electric plant 151.57	22.18	173.75	
Miscel. tools and mach'y 34.42	10.34	4 4 .76	
Conduits 15.00	.50	15.50	<i>.</i>
Towers and lamp posts 85.84	20.30	106.14	• • • •
Arc lamps 199.59	53.96	253.55	
Lines and cables 270.18	99.04	369.22	• • • •
Total maintenance\$ 899.02	\$ 485.79	\$1,384.81	.00396
Executive:			
Salary Sec'y and City Elec\$ 266.66		\$ 266.66	
Printing and stationery	\$. 79.53	7 9. 5 3	
Store room 90.60	• • • •	90.60	
Office 66.00	17.05	83.05	
Superintendence and drafting 155.00	2.50	157.50	
Total executive\$ 578.26 Station:	\$ 99.08	\$ 677.34	.00193
Oils	\$ 69.63	\$ 69.63	.00019
Waste	22.68	22.68	,00006
Coal	1,889.53	1,889.53	.00540
Miscellaneous supplies	154.83	154.83	.00044
Wages\$1,816.61	••••	1,816.61	.00519
Total station\$1,816.61 Lighting:	\$2,136.67	\$3,953.28	.01128
Trimming and patrolling\$1,476.85	• • • •	\$1,476.85	
Carbons	\$ 712.05	712.05	
Incand. lamp renewals	88.61	88.61	
Incand. lighting expense 34.83	2.85	37.68	
Globes and nets	34.43	34.43	
Miscellaneous supplies	16.28	16.28	
Belle Isle Park 90.74	12.84	103.58	• • • •
Total lighting\$1,602.42	\$ 867.06	\$2,469.48	.00705
Shop supplies	\$ 22.53	\$ 22.53	.00007
Surgeon and hospital	• • • •	• • • •	• • • •
Total operating cost\$4,896.31	\$3,611.13	\$8,507.44	.02429
March, 1900, was\$4,777.63	\$3,320.28	\$8,097.91	.02424
March, 1899, was 5,545.67	3,107.43	Digit8.653.100	0.02742
March, 1898, was 5,678.90	3,444.40	9.123.30	.03050
March, 1897, was 6,221,01	3,241.21	9,462.22	.03541

Cash Cost of Operation—April, 1901.

Output this month, 297,758 K. W. Hours. Cost Output April, 1900, 279,953 K. W. Hours. per. K. W. Maintenance: Wages. Stores. Total. Hour. \$ Bldgs., track, dock, etc....\$ 30.52 \$ 2.50 33.02 Steam plant 37.82 *7*6.58 114.40 Electric plant 52.56 81.73 134.29 Miscel, tools and mach'y.... 36.96 12.00 48.96 Conduits 28.93 3.40 32.33 Towers and lamp posts..... 42.96 32.25 10.71 Arc lamps 186.20 81.15 267.35 Lines and cables..... 624.61 462.15 162.46 Total maintenance\$ 867.39 430.53 .00436 \$1,297.92 Executive: Salary Sec'y and City Elec..\$ \$ 295.63 295.63 Printing and stationery..... 32.68 32.68 Store room 51.49 51.49 Office 15.86 80.86 65.00 Superintendence and drafting 155.00 155.00 Total executive \$ 567.12 \$ 48.54 \$ 615.66 .00207 Station: Oils 74.07 74.07 .00025 Waste 19.81 19.81 .00007 \$1,660.44 \$1,660.44 .00555 Miscellaneous supplies 64.41 64.41 .00022 Wages\$1,745.93 .00587 1,745.93 Total station\$1,745.93 \$1,818.73 **\$**3,564.66 .01196 Lighting: Trimming and patrolling...\$1,421.96 \$1,434.21 12.25 Carbons 578.66 578.66 Incand. lamp renewals..... 88.77 88.77 Incand. lighting expense.... 16.91 22.81 39.72 Globes and nets..... 39.10 39.10 Miscellaneous supplies 2.43 2.43 Belle Isle Park..... 101.82 16.27 118.00 Total lighting\$1,540.60 760.29 \$2,300.98 .00773 Shop supplies 9.02 9.02 .00003 Surgeon and hospital Total operating cost.....\$4,721.13 \$3,067.11 \$7,788.24 .02615 April, 1900, was.....\$4.458.19 \$2,727.78 \$7,185.97 .02567 April, 1899, was..... 4.898.82 2,656.34 igitize 7,555.16 .02916 April, 1898, was..... 5,174.66 2,798.64 7,973.30 .03198

2,662.92

8,670.43

.03928

April, 1897, was..... 6,007.51

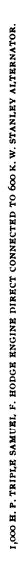
Cost of Operation—May, 1901.

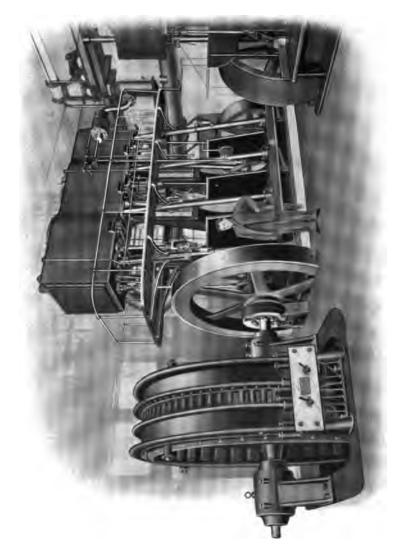
Output this month, 276,265 K. W. Hours. Output May, 1900, 252,019 K. W. Hours.

Output May, 19	900, 252,01	19 K. W. H	ours.	
				Cost
	Wages.	Stores.	Total. Pe	r K. W.
Maintenance:	_			Hour.
Bldgs., track, dock, etc	\$ 55.03	\$.70	\$ 55.73	
Steam plant		26.41	87.62	
Electric plant			18.10	
Miscel. tools and mach'y		12.92	70.11	
		-	•	
Conduts		28.59	85.71	
Towers and lamp posts	•	1.90	19.33	• • • •
Arc lamps		79.48	252.79	• • • •
Lines and cables	400.75	84.44	485.19	• • • •
Total maintenance Executive:	\$ 840.14	\$ 234.44	\$1,074.58	.00389
Saly. Sec'y and City Elect	\$ 266.66	\$ 10.00	\$ 276.66	
Printing and stationery		7.93	7.93	
Store room			60.10	
Office		6.21	71.81	
Superintendence and drafting		·75	155.75	
supermendence and diatems			-33.73	
Total executive Station:	\$ 547.36	\$ 24.89	\$ 572.25	.00207
Oils	\$	\$ 72.68	\$ 72.68	.00026
Waste		21.60	21.60	.00007
Coal		1,564.08	1,564.08	.00566
Miscellaneous supplies		45.89	45.89	.00017
Wages		43.09	1,835.35	.00665
wages				.00003
Total station	\$1,835.35	\$1,704.25	\$3,539.60	.012.81
Trimming and patrolling	\$1,453.38	\$ 1.50	\$1,454.88	
Carbons		532.64	532.64	
Incand. lamp renewals		71.85	71.85	
Incand. ltg. expense		1.80	13.67	
Globes and nets		52.72	52.72	
Misc. supplies		1.02	1.02	
Belle Isle Park			160.58	• • • •
Delic Tsic Tark		19.74		
Total lighting		\$ 681.27	\$2,287.36	.00828
Shop supplies		3.90	3.90	10000.
Surgeon and hospital		• • • •		
Total operating cost	\$4.828.04	\$2648 ==	\$n 400 60	
		\$2,648.75	\$7,477.69 \$7.010.09	.02706
May, 1900, was		\$2,804.71	\$7,319.28	.02904
May, 1899, was		2,553.57	_ 7,085 ы 8	~~·
May, 1898, was		2.585.75	7,781.21	.03476
May, 1897, was	. 5,058.29	2,377.02	8,035.31	.04102

Cash Cost of Operation—June, 1901.

Output June, 1901 250,1 Output June, 1900 224,2		Hours	Cost
Maintenance: Wages.	Stores.	Total.	er K. W. Hour.
Bldgs., track, dock, etc\$ 88.39	\$ 11.09	\$ 99.48	
Steam plant 107.09	46.47	153.56	
Electric plant 21.73	260.81	282.54	
Misc. tools and mach'y 45.02	16.31	61.33	
Conduits 3.37	.20	3.57	
Towers and lamp posts 19.19		19.19	
Arc lamps 128.01	52.44	180.45	
Lines and cables 137.80	26.90	164.70	• • • •
Total maintenance\$ 550.60	\$ 414.22	\$ 964.82	.00386
Executive:			
Saly. Sec'y and City Elect\$ 266.66	\$	\$ 266.66	• • • •
Printing and stationery	14.50	14.50	• • • •
Store room 57.50		57.50	• • • •
Office expense 71.20	23.90	95.10	• • • •
Supt. and draughting 155.00	.70	155.70	
Total executive \$ 550.36 Station:	\$ 39.10	\$ 589.46	.00235
Oils\$	\$ 67.98	\$ 67.98	.00027
Waste	22.40	22.40	.00000
Coal	1,409.10	1,409.10	.00563
Miscellaneous supplies	15.59	15.59	.00007
Wages 1.695.59		1.695.59	.00678
Total station\$1,695.59	\$1,515.07	\$3,210.66	.01284
Trimming and patrolling\$1,400.26	\$	\$1,400.26	
Carbons	506.63	506.63	
Incand. lamp renewals	89.29	89.29	
Incand. ltg. expense 23.48	10.70	34.18	
Globes and nets	47.21	47.21	
Miscellaneous supplies	1.40	1.40	
Belle Isle Park 106.69	19.16	125.85	
Total lighting\$1,530.43	\$ 674.39	\$2,204.82	.00882
Shop supplies\$	\$ 6.00	\$ 6.co	.00002
Surgeon and hospital	45.00	45.00	.00017
Total operating\$4,326.98	\$2,693.78	\$7,020.76	.02806
June, 1900, was\$4,728.83	\$3,005.06	\$7.733.89	.03449
June, 1899, was 4.108.93	2,160.42	6,269.35	.02907
June, 1898, was 5,041.76	2,082.89	Digit 7,124.65	
June, 1897, was 5.592.81	2,452.40	8,045.21	.04567





Operating

FISCAL YEAR

	-First Six Months
Maintenance: Wages	. Stores. Total.
Buldings, track, dock, etc \$ 224.5	4 \$1,051.58 \$1,276.12
Steam plant 593.0	3 883.60 1,476.63
Electric plant 229.6	
Misc. tools and machinery 390.9	
Conduits 104.3	
Towers and lamp posts 1,110.7	
Arc lamps 1,337.6	
Lines and cables	
Total maintenance \$6.414.6	2 \$4,526.97 \$10,941.59
Executive:	6
Salary Sec'y and City Electrician \$1,599.9	((
Printing and stationery	
Store room 488.1	
Office 438.7	
Superintendence and draughting 917.5	0 82.80 1,000.30
Total executive	6 \$ 839.93 \$4,284.19
Oils \$. \$ 447.71 \$ 447.71
Waste	
Coal	
Miscellaneous supplies	
Wages 10,795.6	
Total station\$10,795.6	7 \$11,357.70 \$22,153.37
Trimming and patrolling\$ 8,199.4	0 \$ \$ 8,199.40
Carbons	
Incandescent renewals	
Incandescent lighting expense 114.2	
Globes and nets	
Miscellaneous supplies	
Belle Isle Park 526.1	
Total lighting\$ 8,839.7	4 \$ 5,463.25 \$14,302.99
Shop supplies	. 38.75 38.75
Surgeon and hospital 25.3	7 148.15 173.52
Total operating\$29,519.6	66 \$22.374.75 \$51.894.41
Year ending June 30, 1900\$27,270.2	4 \$17,029.77 \$44,300.01
Year ending June 30, 1899 32,335.5	5 17,965.33 50,300.88
Year ending June 30, 1898 32,303.3	34 17,99±59 050,294.93
Year ending June 30, 1897 38,830.2	

Disbursements.

ENDING JUNE 30, 1901.

41.211.0 10	1127 30, 1901.				
SECON	ND SIX MONTH	IS.——		FOR TWELVE	Months
Wages.	Stores.	Total.	Wages.	Stores.	Total.
\$ 328.38	\$ 113.20	\$ 441.58	\$ 552.92	\$ 1,164. <i>7</i> 8	\$ 1,717.70
472.04	604.51	1,076.55	1,065.07	1,488.11	2,553.18
365.55	525.1 <i>7</i>	890.72	595.23	821.30	1,416.53
290.82	104.63	395.45	681.76	2 93.86	975.62
226.00	57.50	283.50	330.32	69.03	399.35
224.62		203.30		784.07	
	53.41	278.03	1,335.40		2,119.47
1,060.83	335.83	1,396.66	2,398.44	712.40	3,110.84
1,905.81	533.85	2,439 .66	4,329.53	1,521.52	5,851.05
\$ 4,874.05	\$ 2,328.10	\$ 7,202.15	\$11,288.67	\$ 6,855.07	\$18,143.74
\$ 1,628.93	\$ 10.00	\$ 1,638.93	\$ 3,228.89	\$ 10.00	\$ 3.238.89
	193.96	193.96		854.97	854.97
425.62	3.25	428.87	913.72	5.37	919.09
396.40	94.68	491.08	835.10	188.68	1,023.78
930.00	7.95	937.95	1,847.50	90.75	1,938.25
\$ 3,380.95	\$ 309.84	\$ 3,690.79	\$ 6,825.21	\$ 1,149.77	\$ 7,974.98
\$	\$ 424.89	\$ 424.89	\$	\$ 872.60	\$ 872.60
	124.72	124.72		244.37	244.37
	10,486.78	10,486.78		20,704.44	20,704.44
• • • • •		439.11		1,011.79	1,011.79
10,626.31	439.11	10,626.31			
			21,421.98		21,421.98
\$10,626.31	\$11,475.50	\$22,101.81	\$21,421.98	\$22,833.20	\$44.255.18
\$ 8,544.12	\$ 26.75	\$ 8,570.87	\$16,743.52	\$ 26.75	\$16.770.27
	3,798.40	3.798.40		7,833.52	7,833.52
	595.03	595.03		1,366.34	1,366.34
139.20	42.00	181.20	253.44	71.49	324.93
	233.66	233.66		693.42	693.42
	37.14	37.14		173.85	173.85
606.52	68.01	674.53	1,132.62	98.87	1,231.49
\$ 9.289.84	\$ 4.800.99	\$14,090.83	\$18,129.58		
• • • • •	69.63	69.63	• • • • •	108.38	108.38
25.00	20.00	45.00	50.37	168.15	218.52
\$28,196.15	\$19,004.06	\$47,200.21	\$57,715.81	\$41,378.81	\$99.094.62
\$27,626.90	\$18,160.82	\$45.787.72	\$54.897.14	\$35,190.59	\$90.087.73
29,958.75	16,405.40	46,364.15	62,294.30	34.370.73	96,665.03
31,705.88	17,991.59	49,418.25	64,009.33	35,703.85	99.713.18
35.920.53	16,785.52	52,706.05	74,750.82	35,399,56	
33.9-0.33	,703.32	5-1700.05	741730.02	25 PARTEQ 27	Condition.

Comparison of Wages Paid in Operating Expenses.

For years ending June 30.

Account.

Maintenance:	1901.	1900.	1899.
Buildings, track, wharf, etc	552.92	\$ 487.10	\$ 783.47
Steam plant	1,065.07	1,577.95	1,212.72
Electric plant	595.23	549.45	1,117.89
Miscel. tools, machinery, etc	681. 7 6	780.18	663.03
Conduits	330.32	584.68	463.71
Towers and lamp posts	1,335.40	. 1,047.36	893.57
Arc lamps	2,398.44	1,659.00	3,508.99
Lines and cables	4,329.53	3,388.93	3.512.62
Total maintenance	\$11.288.67	\$10,074.65	\$12,156.00
	,,,	+,-,-,3	, , . ,
Executive:			
Salary Sec'y and City Electrn\$ Printing and stationery	3,228.89	\$ 3,666.58	\$ 3,799.92
Store room	913.72	963.16	847.81
Clerks and office expense	835.10	1,492.17	1,562.45
Civil engineer and draughting.	1,847.50	1,184.76	1,179.92
Civil engineer and draughting	1,647.50	1,164.70	1,1/9.92
Total executive	6,825.21	\$ 7,396.67	\$ 7.390.10
Station:			
Oils	\$	\$	\$
Waste	• • • • • •	• • • • • • • • • • • • • • • • • • • •	
Coal			
Miscellaneous supplies			
Wages		2 0,968. 7 0	21,469.63
Total station	\$21,421.98	\$20,968.70	\$21,469.63
Lighting:			
Trimming and patrolling	\$16,743.52	\$15,243.86	\$19.763.17
Carbons			
Incand. lamp renewals			
Incand. lighting expense	253.44	252.99	296.92
Globes and nets			
Miscellaneous		19.82	27.87
Belle Isle Park	1,132.62	880.70	1,128.61
	1,132.02		
Total lighting	\$18,129.58	\$16,397.37	\$21,216.57
Shop expense	\$	\$	\$
Injuries and damages	50.37	149.75	62.00
Total wages paid	557.715.81	\$54.897.14 Digitized	\$62.294.36

Comparison of Operating Expenditures for Stores.

For years ending June 30. Account.

Maintenance:	1001	1000)	1899.
	1901. 1,164. 7 8	1900.	
	1,104.78	\$ 222.78 1,034.70	\$ 356.28 1,434.15
Electric plant	821.30		
Miscl. tools and machinery	293.86	329.92 207.58	239.13
Conduits	69.03	207.58 51.01	377.32
Towers and lamp posts	784.0 7	-	55.77 52.54
Arc lamps	712.40	557.31 722.49	1,201.64
	1,521.52	1,260.68	1,540.76
Total maintenance\$	68== 07	\$ 4,386.47	\$ 5.257.59
	0,055.07	φ 4,360.47	φ 5.25/.59
Executive:			
Salary Sec'y and City Electr\$	10.00	\$	\$
Printing and stationery	854.97	551.84	51 7 .16
Store room	5.37	6.13	37.70
Clerks and office expense	188.68	341.71	193.68
Civil engr. and draughting	90.75	117.56	33.49
Total executive\$	1,149.77	\$ 1,017.24	\$ 782.03
Station:			
Oils\$	872.60	\$ 1,024.97	\$ 994.99
Waste	244.37	246.21	φ 99 4 .99 235.05
G .	0,704.44	16,127.59	17,873.34
3.61 44	1,011.79	1,037.61	678.97
Wages			
Total station\$2	2,833.20	\$18,436.38	\$19.782.35
Lighting:			
Trimming and patrolling\$	26.75	\$ 191.26	\$ 76.29
Carbons	7,833.52	8,017.60	6,295.98
Incand, lamp renewals	1,366.34	1,352.95	912.80
Incand, lighting expense	71.49	176.31	47.98
Globes and nets	693.42	788.91	517.02
Miscelalneous supplies	173.85	248.16	185.25
Belle Isle Park	98.87	140.29	93.17
Total lighting\$1	0,264.24	\$10,915.48	\$ 8,128.49
Shop expense\$	108.38	\$ 136.17	\$ 122.17
Injuries and damages	168.15	298.85	298.10
Total supplies\$4	1,378.81	\$35,190.59 Digitized b	\$34.370.73

Comparison of Total Operating Expenses.

For years ending June 30.

Account.

Maintenance:	1901.	1900.	1899.
Buildings, track, wharf	\$ 1,717.70	\$. 709.88	\$ 1,139.75
Steam plant		2,612.65	2,646.87
Electric plant	1,416.53	879.37	1,357.02
Miscl. tools and machinery		987.76	1,040.35
Conduits		635.69	519.48
Towers and lamp posts		1,604.67	946.11
Arc lamps		2,381.49	4.710.63
Lines and cables		4.649.61	5,053.38
Total maintenance	18,143.74	\$14,461.12	\$17.413.59
Executive:			
Salary Sec'y and City Electr	.\$ 3,238.89	\$ 3,666.58	\$ 3.799.92
Printing and stationery	854.97	551.84	517.16
Store room	919.09	969.29	885.51
Clerks and office expense		1,833.88	1,756.13
Civil engr. and draughting		1,302.32	1,213.41
Total executive	.\$ 7,974.98	\$ 8,323.91	\$ 8,172.13
Station:			
	e 06-	.	.
Oils		\$ 1,024.97	\$ 994.99
Waste		246.21	235.05
Coal		16,127.59	17,873.34
Miscellaneous supplies		1,037.61	678.97
Wages	. 21,421.98	2 0,968. 7 0	21,469.63
Total station	.\$44,255.18	\$39.405.08	\$41,251.98
Lighting:			
Trimming and patrolling	.\$16,770.27	\$15,435.12	\$19,839.46
Carbons		8,017.60	6,295.98
Incand. lamp renewals	. 1,366.34	1,352.95	912.80
Incand. lighting expense		429.30	344.90
Globes and nets		788.91	517.02
Miscellaneous supplies		267.98	213.12
Belle Isle Park		1,020.99	1,221.78
Total lighting	.\$28,393.82	\$27,312.85	\$29,345.06
Shop expense	.\$ 108.38	\$ 136.17	\$ 122.17
Injuries and damages		448.60	360.10
Total operating expense	.\$99.094.62	\$90,087173 1 by	C\$96,665.03

Financial Statement.

April 4, 1893, to June 30, 1901. Covering Existence of the Commission.

Appropriations and Receipts-

From City of Detroit:	
From City of Detroit: Balance of lighting fund of 1893\$ 8,226.	20
From contingent fund, 1893	
From bond issue, 1893	
From bond issue, 1896 50,000.	
From taxes levied prior to 1893 4,379.	
From taxes levied 1893 175,000.	
From taxes levied 1894 174,362.	
From taxes levied 1895 158,278.	
From taxes levied 1896 150,000.	
From taxes levied 1897 204,780.	
From taxes levied 1898 79.000.	00
From taxes levied 1899 136,945.	00
From taxes levied 1900 96,000.	00
Total from City of Detroit	\$1,861,971.89
From other sources:	
From Inspection Department\$ 13,180.	50
From work and material supplied other city de-	
partments 14,132.	40
From sale of old material 5.533.	
From rent conduits, poles, etc 5,769.	
From lighting public buildings	
From accounts payable	
	11
	00
Trom conscience fund	00
Total from other sources	oo \$ 58,639.93
Total from other sources	\$ 58,639.93
Total from other sources	
Total from other sources Grand total appropriations and receipts Disbursements—	\$ 58,639.93
Total from other sources	\$ 58,639.93 \$1,920,611.82
Total from other sources Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82
Total from other sources Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82
Total from other sources Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82
Total from other sources Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82 00 43 15 96
Total from other sources Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82 00 43 15 96
Total from other sources Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82 00 43 15 96 07
Total from other sources. Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82 00 43 15 96 07 04 12
Total from other sources. Grand total appropriations and receipts Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82 00 43 15 96 07 04 12 84
Total from other sources. Grand total appropriations and receipts. Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82 00 43 15 96 07 04 12 84 92
Total from other sources. Grand total appropriations and receipts. Disbursements— Investment accounts: Real estate \$63,125. Conduits 92,383. Cables 55,370. Buildings and wharf 110,204. Lines and poles 144,633. Towers and lamp posts 97,755. Arc plant 60,949. Incandescent plant 13,631. Steam plant 112,630. Railway track and scales 10,982.	\$ 58,639.93 \$1,920,611.82 000 43 15 96 07 04 12 84 92 31
Total from other sources. Grand total appropriations and receipts. Disbursements— Investment accounts: Real estate	\$ 58,639.93 \$1,920,611.82 000 43 15 96 07 04 12 84 92 31
Total from other sources. Grand total appropriations and receipts. Disbursements— Investment accounts: Real estate \$63,125. Conduits 92,383. Cables 55,370. Buildings and wharf 110,204. Lines and poles 144,633. Towers and lamp posts 97,755. Arc plant 60,949. Incandescent plant 13,631. Steam plant 112,630. Railway track and scales 10,982. Machine shop 8,014. Arc lamps and switches 55,678.	\$ 58,639.93 \$1,920,611.82 000 43 15 96 07 04 12 84 92 31
Total from other sources. Grand total appropriations and receipts. Disbursements— Investment accounts: Real estate \$63,125. Conduits 92,383. Cables 55,370. Buildings and wharf 110,204. Lines and poles 144,633. Towers and lamp posts 97,755. Arc plant 60,949. Incandescent plant 13,631. Steam plant 112,630. Railway track and scales 10,982. Machine shop 8,014. Arc lamps and switches 55,678.	\$ 58,639.93 \$1,920,611.82 000 43 15 96 07 04 12 84 92 31 16 62
Total from other sources. Grand total appropriations and receipts. Disbursements— Investment accounts: Real estate \$63,125. Conduits 92,383. Cables 55,370. Buildings and wharf 110,204. Lines and poles 144,633. Towers and lamp posts 97,755. Arc plant 60,949. Incandescent plant 13,631. Steam plant 112,630. Railway track and scales 10,982. Machine shop 8,014.	\$ 58,639.93 \$1,920,611.82 000 43 15 96 07 04 12 84 92 31 16 62

Financial Statement—Continued.

Disbursements continued.

Amount brought forward		.\$ 851,654.83
Operating expenses:		
City lighting expense from April 4, 1893, to		
June 30, 1896:		
Office expense		
Advertising	319.16	
	381,459.72	
Fuel	17,162.20	
Carbons	8,741.79	
Pay rolls	56,178.13	
Printing and stationery	403.12	
General supplies	4,366.37	
Oil and rags	1,637.85	
Teaming Incandescent lamps	2,192.60	
Globes and nets	432.42 676.93	
Globes and nets		\$ 491,423.80
Operating expense 12 months to June 30, 1897.		\$ 491,423.80 \$ 110,141.38
Operating expense 12 months to June 30, 1898.		99,713.18
Operating expense 12 months to June 30, 1890.		96,665.03
Operating expense 12 months to June 30, 1999.		90,087.73
Operating expense 12 months to June 30, 1900.		99,094.62
Cost of labor and material for other city de-		99,094.02
partments		12,687.59
Inspection department		11,905.50
Increase of stores		4,074.03
Work on City Hall tower		612.38
Work done for Detroit Boat Club		654.08
Accounts receivable		651.48
Taxes charged back, 1893\$	1,487.28	(7,1,40
Taxes charged back, 1894	2,525.59	
Taxes charged back, 1895	3,063.44	
Taxes charged back, 1896	3,421.58	
Taxes charged back, 1897	12,469.86	
-		\$ 22,967.75
Total disbursements		\$1,892,333.38
Total appropriations and receipts		1,920,611.82
Total appropriations and Total position		
Excess of appropriations and receipts		\$ 28,278.44
Balance June 30, 1901:		
City Treasurer\$	27,279.61	
Secretary	998.83	~ *
_		\$ed by 28,278.44 C
		. 0

Receipts and Disbursements

Twelve months to June 30th, 1901.

Receipts-

From sale of old material	06,000.00 2,120.08 446.61 1,544.30 2,901.05 2,166.11 1,455.00		
Total receipts	5	\$	106,633.15
Disbursements:			
For 12 months construction expense	09,094.62 23,566.83 2,266.64 1,420.53 8,562.48		
Total disbursements	:	\$	134.911.10
Excess disbursements	:	\$	28.277.95
Cash balances June 30th, 1900, were: City Treasurer\$ 5 Secretary	1,781.63	\$	56,556.39
		-	
Cash balances June 30, 1901, should amount to Cash balances June 30, 1901, are:	;	\$	28,278.44
City Treasurer\$ 2 Secretary	998.83	\$	28.278.44

Trial Balance.

June 30, 1901.

June 30, 190	' . .		
Detroit Boat Club	\$	654.08	
Commercial National Bank		651.48	_
Will F. Conant			\$ 110.27
Petty cash		998.83	
Appropriation balance July 1, 1901		_	146,825.26
City Treasurer, cash		27,279.61	
Incandescent lighting			2,120.08
Sale of old material			446.61
Rentals			1,544.30
Pay rolls		62,777.66	62,777.66
Inspection department disbursements		2,266.64	
Inspection department receipts	• • • • • • •		2,901.05
Investment accounts:			
Conduits\$	1.658.26		
Belle Isle	113.41		
Buildings, tracks and dock	200.46		
Lines	3,297.80		
	17,073.68		
Towers and lamp posts	218.50		
Steam plant	781.05		
Electric plant, Arc	58.39		
Electric plant, Incandescent	149.68		
Arc lamps	15.60		
- The lamps		23,566.83	
Operating accounts:		-5,5	
Maintenance:			
Conduits\$	200.25		
Buildings, track, dock., etc	399·35 1,717.70		
Steam plant	2,553.18		
Electric plant	1,416.53		
Miscellaneous tools and machinery.	975.62		
Towers and lamp posts	2,119.47		
Arc lamps	3,110.84		
Lines and cables	5,851.05		
Ellies and cables	5,051.05	18,143.74	
Executive:		10,143.74	
Salary Sec'y and City Electrician\$	2 228 80		
Printing and stationery	854.97		
Store room	919.09		
Office	1,023.78		
Engineering and superintendence	1,023.78		
rangineering and superintendence	1,930.25	7.974.98	
•		/·9/4·90 	
Amounts carried forward	_ т2	44.313.85	\$216,726.1
		ママンシンの	DV COCK

Trial Balance—June 30, 1901—Continued.

Amounts carried forward\$1	44,313.85 \$	216,726.15
Station:		
Oils \$ 872.60 Waste 244.37 Coal 20,704.44 Miscellaneous supplies 1,011.79 Wages 21,421.98	44.255.18	
Lighting:		
Trimming arcs and patrolling. \$16,770.27 Carbons	28,393.82	
Shop supplies	108.38	
Foreign work, disbursements	1,420.53	2,269.24
Supplies in stock:		
Carbons \$ 3.431.82 Coal 53.93 Incandescent lamps 307.13 Oils 22.23 Waste 28.07 Globes and nets 223.47 Γrans. ropes Dynamo brushes 7.38	4,074.03	
Accounts payable	4,5/4,53	3,788.84

\$222,784.31 \$222,784.31

Balance Sheet.

Books closed June 30, 1901.

Detroit Boat Club. Commercial National Bank. Petty cash balance. Appropriation balance Cash balance, City Treasurer. Will F. Conant. Foreign work balance.	651.48 998.83 27,279.61	\$28,910.21 110.27 848.71
Supplies in stock: \$ 28.07 Carbons 3.431.82 Coal 53.93 Incandescent lamps 307.13 Oils 22.23 Globes and nets 223.47 Dynamo brushes 7.38		a =99 9 .
Accounts payable	4,074.03	3.788.84
-	\$33,658.03	\$33,658.03

Assets and Liabilities.

June 30, 1901.

Assets-

City Treasurer's cash balance\$ Secretary's cash balance Accounts receivable Stores on hand	998.83 4,697.06	
Total assets		\$37.049.53
Liabilities—		•
Accounts payable		\$ 3.788.84
Evener of pagets		\$22.260 60

Office of the Public Lighting Commission,

Detroit, August 20, 1901.

Hon. David W. Simons,

President Public Lighting Commission,

Detroit, Mich.

Dear Sir:-

This is to certify that the disbursement vouchers of the Commission for the fiscal year ending June 30, 1901, have been examined by the Auditing Committee and approved.

JAMES E. DAVIS, E. H. McCURDY, Auditing Committee.

Office of the City Treasurer.

Detroit, July 19, 1901.

Hon. David W. Simons,

President Public Lighting Commission,

Detroit, Mich.

Dear Sir:-

The books of this office show that for the fiscal year ending June 30, 1901, the receipts and disbursements for the account of the Public Lighting Commission have been as follows:

Balance June 30, 1901.....\$ 27,279.61 Yours respectfully,

WM. B. THOMPSON.

City Treasurer.

Office of the Public Lighting Commission.

STATE OF MICHIGAN, County of Wayne, ss

Frank T. Bowler, Secretary of the Public Lighting Commission, being duly sworn, says that the accounts of the Public Lighting Commission have been examined and verified by him from April 4. 1893, to June 30, 1901, and that the statements published herewith are drawn correctly from the books of the Commission.

(Signed) FRANK T. BOWLER.

Subscribed and sworn to before me this 20th day of August, 1901.

W. J. NAGEL,

Notary Public, Wayne Co., Mich.

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Detroit, June 30, 1901.

Hon. David W. Simons,

President Public Lighting Commission,

Detroit, Mich.

Dear Sir:-

I have examined the books of the Commission for the fiscal year ending this date, and find them as follows:

Receipts-

21000-210	
From taxes year of 1900 (entire appropriation)\$96,000. From incandescent lighting for other departments 2,120. From sale of old material	08 61 30 05 11
Total receipts	\$100,033.15
. Disbursements—	
For 12 months' operating expense\$99,094.	h2
For 12 months' construction expense	
For 12 months' inspection department expense 2,266.	
For 12 months' foreign work expense	53
Total disbursements	 \$134,911.10
Excess disbursements	\$ 28,277.95
Cash balances June 30, 1900, were:	
City Treasurer\$54,774. Secretary	
	
Cash balance June 30, 1901, should amount to Cash balances June 30, 1901, are:	\$ 28,278.44
City Treasurer\$27,279.	61

I have the honor to be,

Secretary

Yours very truly,

FRANCIS J. DUCAT,

City Accountant.

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--- \$ 28.278.44

998.83

Office of the Public Lighting Commission, Detroit, February 5, 1901.

To the Honorable,

The Controller,

City of Detroit.

Dear Sir:-

Complying with your request, we respectfully submit the following estimate of what funds will be required for the fiscal year ending June 30, 1902.

Operation of the Present Plant:	
10,000 tons of coal, at \$2.50 per ton	25,000.00
Removing ashes	300.00
Oils, waste, etc	1,600.00
700,000 pairs carbons, at \$12 per thousand pairs	8,400.00
Incandescent lamp renewals	1,500.00
Maintenance of buildings, track, dock, etc	250.00
Maintenance of steam plant	1,500.00
Maintenance of electric plant	600.00
Maintenance of arc lamps	500.00
Maintenance of outside wiring, lines and cables	500.00
Maintenance of conduits and towers	200.00
Miscellaneous incandescent lighting expense	200.00
Repairs to buildings, painting stack, rebuilding ashpit, re-	
pairs to track and scales	1,000.00
Repairs to boilers and engines	1,500.00
Repairs to electric plant, dynamos and wiring	1,000.00
Repairs to arc lamps, changing and cleaning	1,000.00
Rebuilding lines	2,500.00
Rebuilding conduits and towers	2,000.00
Wages	55,000.00
Total operation, maintenance and repairs	. ••
Extensions to the lighting system—	,
407 arc lamp extensions in most important locations	22,271.00
annum	13,034.16
100 additional arc lamps	5,400.00
Operating same nine months Conduits and cables, required in half mile circle from Beaubien street conduit, Randolph street to Cadillac square, to Bates street, also on Washington avenue, between State and Park; also on Randolph from Larned to Woodbridge, 20,700 duct feet and 13 manholes at 32 cents; and	3,202.50
102.455 feet of cable at 16 cents	25,925,60

Belle Isle Park—
6,000 feet conduit
20,000 feet cable 3.200,00
Addition to the transformer house
Incandescent lines to new buildings 500.00
14 iron lamp posts at \$50 700.00
Palmer Park extension—
Feeder only 800.00
Extension incandescent system—
Running feeder to 7 schools, 7 fire engine houses and 2 police
stations in west end of city
Operating 1,382 lights in above 16 buildings
Net cost of changing one triple engine set and four arc dyna-
mos to alternator direct connected to same engine to
operate both incandescent and arc lighting service 10,000.00
Total\$ 96,701.26
Total estimate\$201,251.26
We have the honor to be,
Yours respectfully,
D. W. SIMONS,
E. H. McCURDY,
JAMES E. DAVIS.
FREDERICK F. INGRAM.
JOHN ERHARD,
HAMILTON CARHARTT,
Commissioners.
Office of the City Controller,
Detroit, June 29, 1901.
To the Honorable,
The Public Lighting Commission.
Gentlemen:—
The Board of Estimates of the City of Detroit, after considering the
estimates submitted by the Public Lighting Commission for the opera-
tion and maintenance of the present plant for the fiscal year ending June
30, 1902, and for the improvements and extensions of the public lighting
system, granted the following:
For operation and maintenance of the present plant\$ 98,000.00
Arc and incandescent lighting extension
Station betterment
T-1.1
Total appropriation\$153,328.00
Respectfully yours,
F. A. BLADES

City Controller

APPENDIX.

Public Lighting Act.

AN ACT to amend an act, entitled "An act to provide a charter for the city of Detroit, and to repeal all acts and parts of acts in conflict therewith," approved June 7, 1883, by adding a new chapter thereto.

Section 1. The People of the State of Michigan enact, That an act entitled "An act to provide a charter for the city of Detroit, and to repeal all acts and parts of acts in conflict therewith," approved June 7, 1883, be and the same is hereby amended by adding a new chapter thereto to be known as chapter thirteen, to read as follows:

CHAPTER XIII.

- Section 1. There shall be a board of commissioners in said city known as the public lighting commission. Said commission shall consist of six members, who shall be appointed by the mayor and approved by the common council. The first appointment of members of this commission shall be made at the next meeting of the common council after this chapter shall have become operative, and the first appointments shall be made for the terms respectively of one, two, three, four, five and six years, and the members so appointed shall hold office until their successors are appointed and shall have qualified. Their successors shall be appointed at the termination of said respective terms for the term of six years. Said commissioners shall take and file in the office of the city clerk the oath of office prescribed for city officers, and shall then enter upon the performance of their duties. They shall appoint their president and secretary, who shall perform the duties usually appertaining to such offices and such as shall be prescribed by said board. The president of said board shall be exofficio a member of the board of estimates. Said board of commissioners shall have authority to call upon the city surveyor for any services they may require in making maps or diagrams of locations of lights and wires within the city limits, and the city clerk and board of public works shall furnish them such information as they may require for the proper discharge of their duties.
- Sec. 2. The said city may contract for the lighting of public buildings, streets, avenues, parks, public grounds and places for any period not exceeding three years. It shall have power to procure lands, and purchase or construct the necessary buildings, engines, dynamos, and other machinery, tools, lamps, lines, conduits, poles, towers and other apparatus and appliances constituting a plant for lighting the said city by electricity or by any other means or system, and if the common council deem it desirable it may purchase towers, poles, wires, lamps and other appliances, and cause lines of wire to be constructed, the use of which it may let to any persons or corporation contracting to light said city. It shall also have power to lay pipes and conduits in the highways, alleys and public places, for gas or electric light wires, and to erect in the highways, alleys and public places, poles, towers, or posts for wires or lamps and to place, construct and maintain the necessary lines of wires, either below or above ground, in the highways, alleys or public places: Provided, That nothing in this act shall be construed as granting said municipality or said board the right to engage in the business of private or commercial lighting.
- Sec. 3. If the common council shall determine to contract for lighting, it shall by resolution direct the public lighting commissioners to enter into a contract for lighting said city, either by electricity or by such other means as it may determine, for a period of time to be mentioned in such resolution. It shall thereupon be the duty of said commissioners to prepare specifications and advertise for proposals for a period of not less than five days, and enter into a contract in behalf of said city with the lowest responsible bidder, for lighting said city by such means as are specified in such resolution: Provided. It shall be competent for the commissioners to contract for lighting the public buildings and any part or portion of the city by different means or systems.
- Sec. 4. If the common council shall determine that it is advisable to establish a plant for public lighting, to be owned by the city, it may direct said commissioners to purchase the necessary lands, machinery, wires, poles, lamps, towers and other

apparatus and appliances mentioned in the second section of this chapter the cost of which shall not exceed eight hundred thousand dollars. And it shall thereupon be the duties of said commissioners without further approval or confirmation of their contracts by the common council, to carry into effect the authority thereby conferred and to make the necessary purchase of lands, machinery, engines, tools, lamps, apparatus and appliances, and construct the buildings required and cause to be constructed or laid all necessary conduits and lines of wire below ground, and to erect and construct all necessary poles, towers, posts, lines of wire above ground, which they shall deem necessary or required according to such system or systems as they may deem best for the lighting of said city. (As amended January 17, 1895.)

Sec. 5. The said commissioners may employ an electrical engineer, who shall be known as the city electrician, and such other superintendents, engineers, clerks, agents and subordinates under them as may be necessary to carry into effect the provisions of this chapter, regulate and define their duties and prescribe their compensation.

Before the common council shall direct said commissioners to establish a plant as herein provided, it shall by resolution submit to the electors of said city, to be voted upon by said electors, the question as to whether the authority hereby conferred shall be exercised. The proposition shall be stated upon the ballots to be printed by the election commissioners, in the following form: "For a city lighting plant—Yes," and the same words repeated followed by the word "No;" and any elector may vote for or against said proposition by marking a cross opposite said words "Yes" or "No." respectively. The votes upon said proposition and for and against the same, respectively, shall be certified, returned and canvassed by the board of city canvassers in the manner now provided by law for certifying, returning and canvassing votes cast for city officers. And if a majority of the electors voting thereon in said city shall vote in favor of said proposition then the authority hereby conferred may be exercised; otherwise the same shall not be so exercised. Notice shall be given by the city clerk by publication in four or more newspapers of the election to vote upon said proposition at least five days before the election.

- Sec. 6. The said commissioners shall have a general supervision and management of all public lighting, and of any plant established by the city, as herein provided for that purpose, and all employes engaged in or about the construction or operation thereof, and shall make the necessary purchase of fuel, tools, supplies, materials, apparatus and appliances required in the operation and management of said plant, without further approval or confirmation of their contracts by the common council: Provided, That the expenditures for the operation and management of said plant shall not exceed in any one year the tax levied for that purpose: And provided further, That after the adoption by them of plans and specifications for the erection of any buildings, the board of public works shall have the immediate supervision or superintendence of construction thereof, and also of the laying of conduits in the public streets, and of the necessary excavation, refilling and repaving caused thereby. (As amended January 17, 1895.)
- Sec. 7. The said city may raise by tax the necessary funds to provide for the public lighting and for the purpose of providing for the construction of the public lighting plant, as herein provided, may raise moneys by tax or issue the bonds of said city, payable at such times and in such amount and at such rates of interest as the common council may determine, subject, however, to the approval of the board of estimates as provided by section 4, chapter 8, of act number 488 of the public acts of 1887. It shall also have power to issue bonds in like manner or raise moneys by tax for the purchase or construction of conduits, wires, posts, poles, towers and lamps, for use by any party or parties contracting for the public lighting as herein provided.
- Sec. 8. No contract shall be let nor any purchase be made of any lands or property requiring the payment of any money, nor shall any moneys be paid for public lighting in excess of the tax levied for that purpose or of moneys raised by issuing bonds as herein provided.
- Sec. 9. The public lighting commissioners shall have the supervision of the construction of all the electric lighting lines of wires in said city whether owned by the city or by other parties, and of all connections made with any building or buildings, and no such wires or lines of wire shall be placed, laid, erected or constructed, nor shall any pole or post or conduit be laid, placed or constructed for such lines, nor any connection made with any building or buildings, except under such general regulations as they from time to time may adopt. They may prescribe the limits of the

district or districts in said city, within which it shall not be lawful to erect poles and train wires for such lines above ground in any street or highway, and they may prescribe or determine the other street or streets in which it may be lawful to erect or construct such lines of wire above ground. Any person violating the provisions of this section shall be deemed guilty of a misdemeanor and shall be punished accordingly.

Sec. 10. The common council shall have power to adopt ordinances not in conflict herewith, to carry out the provisions of this chapter and to regulate the use of electricity for lighting purposes in said city, and the training or using of wires therefor, and to regulate or prohibit the erection of poles in the streets of said city for such wires, or the training thereof.

Sec. 11. Any person who shall cut, break, injure or destroy any building, engine, dynamo or other machinery, or appliances, poles, posts, towers, lamps, wires, or conduits erected, constructed or used for the public lighting of said city, whether owned by the corporation or by any party or parties contracting for the lighting of said city, with intent to prevent or interrupt the lighting of any public building, or any part or portion of said city, shall be deemed guilty of a misdemeanor, and shall be punished therefor by a fine of not less than twenty-five dollars nor more than one thousand dollars, or by imprisonment not exceeding two years, or by both fine and imprisonment in the discretion of the court, and proof that the acts was willful shall be prima facie evidence of such intent.

This act is ordered to take immediate effect.

Approved March 18th, 1893.

General Lighting Ordinance.

A GENERAL ORDINANCE authorizing the granting of permission to construct, maintain and operate poles, conduits, wires or other conductors for the purpose of furnishing electric lighting in the City of Detroit.

It is hereby ordained by the People of the City of Detroit:

Section 1. That any person or corporation carrying on a manufacturing business in the City of Detroit, and having surplus power applicable to the purpose, may apply to and receive a permit from the Public Lighting Commission to lay conduits, erect poles and place thereon or therein wires or other conductors for the purpose of furnishing electric lighting to any person or persons desiring the same, and within the district to be designated in the application to be made for such permit. Said Public Lighting Commission is hereby authorized to grant such permits for the laying of conduits, erection of poles, placing of wires or conductors thereon in the streets, alleys or other highways of the city; subject, however, to the conditions and restrictions imposed by this ordinance, and all other general ordinances now in force or which may hereafter be adopted concerning the same.

Sec. 2. The person or corporation to whom such permit shall be granted shall do no injury to any street, avenue alley, lane, park or public square, or to any shade trees, or in any manner disturb or interfere with any water or gas pipes, or with any public or private sewer now or hereafter laid or constucted by any authoized person, persons or corporations, or the wires and conduits of any telephone, telegraph or electric lighting or street railway company, or of the police, fire or lighting commission, and shall fully indemnify and save harmless the City of Detroit from any and all claims or damages for which said city might be made or become liable to pay by reason of the construction, maintaining, repairing or operating of said poles, conduits, wires, lamps or other conductors, or any apparatus connected therewith or otherwise arising from the use or possession of the rights and privilege granted, or from any neglect on the part of said corporation or person or its or his employes to comply with any of the ordinances of the City of Detroit, and especially shall indemnify the city against and assume all liability and damages which may arise, come or occur to the City of Detroit from any injury to persons or property from the doing of any work herein mentioned, or the neglect of any person or company or its em-

ployes to comply with any ordinance relative to the use of streets, or other public places, especially as to the putting up of lights or barriers at or around excavations, and the acceptance by the person, persons or corporation of such permit of this ordinance shall be an agreement by it to pay to the City of Detroit any sum of money for which the city may become liable from or by reason of such injury.

- Sec. 3. All poles erected under such permit shall be firmly set in the ground next to and within the curbstone, so as to cause the least obstruction, in such manner and of such uniform height, size, color and material as shall be approved or designanted by the Public Lighting Commission and the Board of Public Works.
- Sec. 4. All operating and conducting mains and wires of any such person, persons or corporation shall be thoroughly and securely insulated with a material of sufficient thickness and durability to protect them from abrasion and other mechanical injury, and impervious to water, to be approved by the Public Lighting Commission, and when laid beneath the surface of the ground, all conduits shall be laid in streets and avenues in a line parallel with the curb line thereof, at such distance from the curbstone, or where the curbstone should be as shall be designated by the Board of Public Works, and to a depth not exceeding two feet. It is especially required that all service wire used by such person, person sor corporation shall be connected only with a main laid in a conduit in the alley or at the side of the street nearest to the building into which it is desired to conduct such service wires.
- Sec. 5. At least twenty-four hours before opening or excavating in any street, alley or any public space for the above or for any other purpose, said person, persons or corporation shall notify the Board of Public Works in writing of such desire, stating the place where and the object for which said opening is to be made, and obtain the permit of said board, and in the opening and refilling of all openings and excavations made as aforesaid, the relaying of the pavements and other works necessary to the complete restoration of the streets, pavements, sidewalks or ground to equally good condition as when disturbed, the said person, persons or company or its servants or employes shall be under the supervision of the Board of Public Works or its authorized agents, and shall promptly comply with any order or resolution of said board or its agents, or of the Common Council, in reference thereto. Nor shall any street, avenue or public space be allowed to remain open or incumbered for a longer period than shall be necessary to execute the work for which the same has been opened. And the Board of Public Works or the Common Council may determine the question of such necessity.

The earth removed in making such excavation shall be restored and the pavement be relaid by said person or corporation in as good a condition as before the making of such excavation, and thereafter be maintained in as good condition as the surrounding pavement until the street or alley in each case is repaved. No excavation in any street, alley or public place shall be allowed to remain open or said street, alley or public place be encumbered for a longer period than shall be necessary to

execute the work for which the same is made.

The cost of restoring the earth or otherwise, arising from such excavations and the laying of the pavements and repairs thereto, caused by the opening of any such street, alley or public place, shall be paid by said person or corporation, and said work shall be done under the supervision of the Board of Public Works, and the expense of such supervision shall be paid by said company, on presentation of bills. certified by said board, and any expense to which the city shall be put from neglect of said company or its employes in the doing of any work, or the doing of the same in an unworkmanlike manner, of the digging of ditches or holes and erection of poles, or restoring the earth or any excavation, or relaying or replacing of any pavement, shall be paid in like manner by said company on presentation of the bills of cost certified by said board, and it shall be the duty of said person or corporation in each instance to promptly pay all bills for labor and material, supervision, etc., incurred by the Board of Public Works in relaying and restoring any pavement or surface disturbed by said person, persons or corporation, and if said bills, properly certified by the Board of Public Works, remain unpaid for the space of thirty (30) days after the presentation to said person or corporation, it shall be the duty of the Board of Public Works to pay over to the credit of the proper fund the amount of any bills so remaining unpaid from the guaranty money deposited by said person or corporation with said board, and on refusal, neglect or failure by said person, persons or corporation to make such guaranty money good to its full extent as herein first named prior to the next meeting of the Common Council, the Board of Public Works shall report the facts in the case to the Common Council for such action by the latter body as is permitted or deemed proper under the terms of the ordinancezed by

Sec. 6. The Public Lighting Commission shall have the supervision of the construction of all electric light lines of wires erected in pursuance of the authority hereby granted, and all connections made in any public building or buildings, as provided by chapter 13 of the Charter of the City of Detroit. In the lines of wires or the laying of any conduits as herein provided, said Lighting Commission shall prescribe or determine the street or streets in which it shall be lawful to erect or construct lines of wires above ground, and no person shall erect any pole or train any wire for such lines above ground in any street or highway excepting the same be authorized by such permit.

Any person violating the provisions of this section shall be punished by a fine not exceeding five hundred dollars, and in the imposition of such fine the court may make a further sentence that the offender be imprisoned in the Detroit House of Correction until such fine be paid, provided the term of imprisonment shall not exceed

the period of six months

- Sec. 7. Any permit hereby authorized shall not become operative and authorize the construction of any line of wires above ground or the laying of any conduits until the person or company to whom the same may be granted shall have filed with the City Controller a satisfactory bond, to be approved by the Controller, in the sum of twenty thousand dollars, conditioned that the person or corporation to whom such permit is granted will faithfully comply with and perform the terms and conditions of this ordinance; and such person or corporation shall also have deposited and shall keep on deposit with the City Treasurer the sum of two hundred dollars to cover the expense of the replacing of the earth in making the repairs to pavements required to be relaid by such person or company under the provision of this ordinance, and as a guarantee for the prompt payment of any bills for such work presented by the Board of Public Works such deposit shall be kept good to the amount of two hundred dollars, and on failure to keep the same good to that amount such permit shall become void.
- Sec. 8. In addition to all usual and ordinary taxes and general or special assessments for which any such person, persons or corporation shall be liable, he or it shall annually on the first day of July pay to the City of Detroit, as part of the consideration for the rights herein conferred, the annual sum of one dollar for each pole erected and maintained by it, and also the sum of \$5 per annum for each and every mile of wire operated and maintained by it, computation thereof to be based upon each strand of wire, whether above or below the surface of the ground, said sum to be paid to the City of Detroit for the first year or portion of a year within one month after the construction and erection of such poles, and annually thereafter on the first day of July in each and every year in advance. And the bond mentioned above in section 7 shall be further conditioned for the payment of said sums.
- Sec. 9. Whenever the Public Lighting Commission shall deem it for the public interest they may require, as a condition to the issuing of any permit, that the wires shall be laid in the public conduits, and if any wires shall be strung on poles along any highway, and public conduits shall afterwards be laid therein, said commission may require the wires so strung upon poles to be taken down and put in the public conduit; and upon any refusal to do so, may remove the same. Said commission may prescribe the terms and conditions upon which the public conduits shall be used for such purpose.
- Sec. 10. Any rights acquired under any such permit shall cease whenever the Common Council shall so direct, and all poles and wires shall thereupon be removed at the expense of the person or corporation erecting or controlling the same.
- Sec. II. When any wires erected under any such permit shall interfere with any wires of the Public Lighting Commission, or with any telephone or telegraph wires of the Fire Commission or of the Police Department, the Public Lighting Commission may direct the removal of the same, or such alterations in relation thereto as will obviate or prevent such interference. When any person or corporation shall have erected a pole on any portion of a street, it shall be subject to the condition that the Public Lighting Commission may authorize other persons to whom such permits may be granted, to use such pole already erected, and upon such terms and conditions as the Public Lighting Commission may direct.
 - Sec. 12. This ordinance shall take immediate effect.

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Lighting System Ordinance.

AN ORDINANCE to protect the Public Lighting System.

It is hereby ordained by the People of the City of Detroit:

- Section I. That no person shall cut, break, injure, deface or destroy any building, engine, boiler, dynamo or other machinery or appliances, poles, lamp posts, towers, wires or conduits erected or constructed for the public lighting system of the city of Detroit.
- Sec. 2. No person shall open or tamper with any manholes or handholes or any vault or junction box connected with the conduits of the public lighting system, nor shall any person, association, corporation, or company attempt to place or place any wires in said conduits, or upon the poles of said system without permission in writing from the Public Lighting Commission.
- Sec. 3. No person, association, corporation or company shall post, paint, impress or in any way affix to any pole connected with the public lighting system of said city, or any box, lamp post, tower, wire or other appliance connected therewith, any placard, sign, notice or announcement of any kind, or cause or allow any kite or other obstruction to become entangled with the wires, or apparatus of said system.
- Sec. 4. Any violation of any provision of this ordinance shall be punished by a fine not exceeding one hundred dollars and costs; and in the imposition of any fine the court may make a further sentence that the offender may be imprisoned in the Detroit House of Correction until the payment thereof, for any period not exceeding six months.
 - Sec. 5. This ordinance shall take immediate effect.

Approved September 17th, 1895.

Public Building Ordinance.

AN ORDINANCE relating to the lighting of public buildings.

It is hereby ordained by the People of the City of Detroit:

- Section 1. That the City Hall, Municipal Court building, all Police Stations. Fire Engine Houses, House of Correction, all public school buildings and all other buildings occupied by any of the several boards or commissions forming part of the government of the City of Detroit be and the same are hereby declared to be public buildings.
- Sec. 2. It shall be the duty of the Public Lighting Commission to furnish the electrical current required for the proper lighting of all public buildings. Any electric current supplied by the said commission may be used in said buildings for the driving of ventilating fans or other similar appliances.
- Sec. 3. During the remainder of the present fiscal year the expense of furnishing such electrical current shall be paid as heretofore by the Common Council or by the several boards and commissions using the same, but the Public Lighting Commission shall include in their estimates hereafter the expense of such lighting of all public buildings or such of them as the board or commission in charge thereof shall require to be lighted.
- Sec. 4. Whenever any new public building shall be constructed it shall be the duty of the board of commission in charge thereof to submit the plans therefor to the Public Lighting Commission, and the said commission shall give such instructions as it may deem proper and necessary to insure the proper and safe wiring of such buildings and to supervise the same.

Approved December 12th, 1895.

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An Ordinance to Regulate Electric Wiring and the Use of Electricity.

It is hereby ordained by the People of the City of Detroit:

Section 1. The Public Lighting Commission of the City of Detroit shall assume the supervision of the patting in of all electric wiring, connections and apparatus, in or on any building in the City of Detroit, and shall establish rules and regulations to which all electrical equipments hereafter erected or used within the City of Detroit shall conform.

- Sec. 2. The Public Lighting Commission may, with the consent of the Common Council, employ a sufficient number of competent electricians, not exceeding three, as inspectors, whose duty it shall be to examine each electrical equipment hereafter erected and make a detailed report of same to said Commission as to whether it is in compliance with the rules and regulations of the Commission, and a record of all such reports made by said inspectors shall be kept on file in the office of said Commission, and when an equipment is found to conform to the rules and regulations adopted, the said Commission' shall issue a certificate in duplicate that the terms of this ordinance have been complied with, but no such certificate shall be granted until the equipment is made to conform to the rules prescribed herein, and it shall be unlawful to use any such electrical equipment or to furnish electrical current or currents for the same until certificate has been furnished in accordance with the terms of this ordinance, and the rules and regulations of said Commission.
- Sec. 3. No person, firm or corporation, shall equip any building with wiring or apparatus, or make any alteration of, change in, or addition to any electrical wiring or apparatus, without first notifying the Public Lighting Commission in writing and giving a general description of the work to be done, so that ample opportunity for inspection may be had, and receiving a written permit to do the work described, and such equipment, alteration, change or addition shall be done to the satisfaction of the Public Lighting Commission, who shall issue a certificate in like manner as provided in section two herein.
- Sec. 4. The Public Lighting Commission shall have the right and power, and it shall be their duty to cause all electrical wires and apparatus in or on any building in the City of Detroit to be inspected from time to time, in order to ascertain whether the electrical wiring or apparatus is in any respect dangerous to life or property, and if any part of said electric wires or apparatus shall be found dangerous to life or property, the Public Lighting Commission shall notify the owners of the building or equipments to cease using the electric current in such dangerous equipments; to have the defects in said equipments repaired within a reasonable time, not exceding ten days from date of notice. The Public Lighting Commission shall also give notice to the company furnishing the electric current to any such dangerous equipment to cease to supply the same until the defects therein are repaired, and it shall be the duty of such company, immediately upon receipt of such notice, to cease to supply the electric current to any such dangerous equipment until such defects are repaired.
- Sec. 5. When, upon application inspection is made of the wiring or equipment in any building in this city, the company or person installing such equipment shall, before certificate is issued, pay to the Public Lighting Commission, of this city, for such inspection, the following fees:

For 15 lights or less\$	50
When more than 15 lights, and not more than 25 lights	
When more than 25 lights, and not more than 50 lights	25
When more than 50 lights, and not more than 100 lights	
When more than 100 lights, and not more than 150 lights	50
When more than 150 lights, and not more than 250 lights	00
When more than 250 lights, and not more than 500 lights	UO.
For each additional light, over 500 cent e	

Miniature incandescent lights, one-half above rates.

WHEN WIRING IS FOR ARC LIGHTS.



When wiring is done for dynamo, electric machines, whether used for motors or generators:

For one K-W, or less	50
When more than one K-W, and not more than three K-W	I 00
When more than three K-W, and not more than eight K-W	1 50
When more than eight K-W, and not more than fifteen K-W	2 00
When more than fifteen K-W, and not more than thirty K-W	2 50
When more than thirty K-W, and not more than 60 K-W	5 00
When more than sixty K-W	8 oo

For inspection of electrical apparatus for which no fee is herein prescribed, and for the re-inspection of electrical installations, as provided in section 4, hereof, and for the inspection of temporary installations for decorative, advertising or theatrical purposes, the Public Lighting Commission may prescribe a fee of not exceeding seventy-five cents (75c) per hour, for the time actually consumed by each inspector in making the inspection, and it shall be the duty of the Public Lighting Commission to turn all money received under this ordinance into the Public Lighting fund of the City of Detroit.

When a person, firm or corporation shall be found to have intentionally or negligently violated any of the rules and regulations established by the Public Lighting Commission, under this ordinance, or when through any fault of the person, firm or corporation doing the work, it is necessary to make extra inspection of the work, the Public Lighting Commission shall have the power to charge for such extra inspection, a fee not to exceed seventy-five cents per hour for the time actually consumed by each inspector in making the inspection.

- Sec. 6. Any person, firm or corporation who shall do or attempt to do electrical construction work whether original work or alterations without giving notice in writing to the Public Light Commission, and obtaining a permit to do such work, shall upon conviction thereof be fined in the sum of not less than \$20 nor more than \$100 for each offense, and any person, firm or corporation who shall violate any of the provisions of this ordinance, for which a penalty is not herein otherwise provided, and any occupant or owner of premises where electric wiring or apparatus is used or to be used, who shall refuse to allow, or shall prevent or interfere with any inspector in the discharge of his duties under this ordinance, he or they shall upon conviction for each offense, forfeit and pay a fine of not less than \$5.00 nor more than \$100, in the discretion of the court, and in the imposition of any fine or costs, the court may impose a further sentence that the offender be imprisoned in the Detroit Hoase of Correction until the payment thereof, providing that the term of such imprisonment shall not exceed three months.
- Sec. 7. This ordinance shall not be construed to relieve from or lessen the responsibility of any party owning, operating, controlling or installing any electrical equipment for damages to anyone injured by any defect therein, nor shall the city be held as assuming any such liability by reason of the inspection authorized herein or certificates issued.
 - Sec. 8. This ordinance shall take effect upon and after August 1, 1896.

Approved July 28, 1896.

Sections 4 and 5 of this ordinance are given as amended by the Common Council on September 10, 1901, to take immediate effect.

An Ordinance to Regulate Electric Wiring and the Use of Electricity.

It is hereby ordained by the People of the City of Detroit:

Section 1. That the Public Lighting Commission of the City of Detroit shall annually examine wiremen seeking to engage in that vocation (the term wiremen intending to and does hereby designate and refer to thos who string, train or place electric wire on the inside of buildings, and not to apply to linemen, or those engaged in stringing, training or placing wire on the outside of buildings or structures), as to their ability to do such electrical work, upon written application for, and who apply in person for examination, and to such as pass said examination to the satisfac-

tion of the Public Lighting Commission, a permit in accordance therewith shall be issued by the said Lighting Commission; said permit shall be issued in the form of a badge, which said badge shall be worn in a conspicuous place on the person of such wireman or electrical worker while he is engaged in doing any manner of electric wiring or while engaged in making repairs to electrical wire or fixtures in any building or structure in said City of Detroit. And it shall be unlawful for any person to engage in doing any manner of electrical wiring or repairs to electric wire or fixtures, in any building without such badge conspicuously displayed on his person while engaged in such work. Any wireman or electrical worker (not including linemen) who fails to conform in every respect to the rules prescribed by this ordinance, or who loans or transfers his badge to another, does thereby revoke his permit, and it shall be the duty of the inspector of the Public Lighting Commission to take up and suspend said person to whom said badge has been issued and report same to the Public Lighting Commission, who shall give said person a hearing, and it shall be optional with the said commission to renew or revoke the said permit until the provisions of this ordinance are complied with.

- Sec. 2. It shall be unlawful for any individual, firm or corporation to string or place any bare grounded wire, such as telegraph or telephone wires, on the same pole, stanchion or upright, with high potential wires, without separating said wires carrying high potential currents from said bare grounded wires by a distance of at least eight feet in the clear. And it shall be the duty of any individual, firm or corporation, quasi municipal or otherwise, to remove said bare wires to conform to this ordinance as herein provided, within ninety days from date of service of notice to separate said wires given by the Public Lighting Commission or its duly appointed agent. High potential wires in this ordinance being wires carrying currents of three hundred volts or over.
- Sec. 3. It shall be unlawful for any individual, firm or corporation to encase, cover or introduce any wire, carrying electrical current into any iron pipe or any metallic electrical conducting material, affixed to any wooden pole, stanchion or upright, which shall extend nearer than eight feet from the lowest cross-arm on said wooden pole, stanchion or upright; and it shall be unlawful to expose any electrical wire without such insulation in any manner which shall form a connection or circuit with the earth in such manner as to be dangerous or injurious to life or health. This provision not to apply or prevent the encasement of said wires in any non-conducting substance or material such as wood, etc.
- Sec. 4. It shall be the duty of any company stringing bare wires wherever said wires cross trolley wires, to provide safe and suitable insulation for all such bare wires at such crossings where in case of breakage said wires would come in contact with the aforesaid trolley wires.
- Sec. 5. It shall be the duty of the Public Lighting Commission, upon complaint of any citizen, to examine or cause to be examined any dangerously exposed electrical wires, and to notify the individual, firm or corporation owning or controlling the said exposed wire of its dangerous condition, and to have the same remedied at once, and made safe, and upon the failure of such individual, firm or corporation to remedy and make safe said dangerously exposed wire, it shall be the duty of the said Public Lighting Commission to cause a complaint to be made for a breach of this ordinance and to prosecute the said individual, firm or corporation for such breach; and any refusal or neglect to remedy said dangerously exposed wire, after due and proper notice from the said Lighting Commission, shall subject the individual, firm or corporation owning or controlling the same to a fine or imprisonment.
- Sec. 6. All day circuits, excepting street railway circuits, of high potential currents shall be designated by some mark or distinctive insulator upon each wire at each insulator designate the same as such.
- Sec. 7. It shall be the duty of any individual, firm or corporation to remove from any building, structure or pole all dead wires, which are not actually in use, within thirty days from notice given by the Public Lighting Commission.

Any breach of this ordinance shall subject the offender to a fine of not exceeding two hundred dollars, or to imprisonment for a period of not exceeding sixty days, and each subsequent breach of this ordinance shall be deemed a separate offense, and shall be so punishable.

Sec. 8. This ordinance shall take immediate effect.

Approved November 1st, 1898.

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AN ORDINANCE to regulate the use of wires for telegraph, telephone and electric lighting and all other service wires in the City of Detroit.

It is hereby ordained by the people of the City of Detroit:

- Section 1. Any person or corporation may apply to and receive a permit from the Public Lighting Commission, to lay conduits, erect poles and place thereon or therein wires or other conductors for the purpose of furnishing telephone, telegraph and electric lighting or other service wires to any person or persons desiring the same, and within the district to be designated in the application to be made for such permit. Said Public Lighting Commission is hereby authorized to grant such permits for the laying of conduits, erection of poles, placing of wires therein or thereon in the streets, alleys or other public places in the city, subject, however, to the conditions and restrictions imposed by this ordinance and all other general ordinances now in force or which may hereafter be adopted concerning the same.
- Sec. 2. The person or corporation, to whom such permit shall be granted, shall do no injury to any street, avenue, alley, lane, park or nublic square or to any shade trees, or in any any manner disturb or interfere with any water or gas pipes or with any public or private sewer now or hereafter laid or constructed by any authorized person, persons or corporations or the wires and conduits of any telephone, telegraph or electric lighting or street railway company or of the Police, Fire, or Lighting Commissions, and shall fully indemnify and save harmless the city of Detroit from any and all claims or damages for which said city might be made or become liable to pay by reason of the construction, maintaining or repairing or operating of said poles, conduits, wires or other conductors, or any apparatus connected therewith or otherwise arising from the use or the possession of the rights and privileges granted or from any neglect on the part of said corporation or person or its or his employes to comply with any of the ordinances of the city of Detroit, and especially shall indemnify the city against and assume all liabilities and damages which may arise, come or occur to the city of Detroit from any injury to persons or property from the doing of any work herein mentioned, or the neglect of any person, or company, or its employes, to comply with any ordinance relative to the use of streets or other public places, especially as to the putting up of lights or barriers at or around excavations and the acceptance by the person, persons or corporations of such permit of this ordinance shall be an agreement by it to pay to the city of Detroit any sum of money for which the city may become liable from or by reason of such injury.
- Sec. 3. All poles erected under such permit shall be firmly set in the ground and in streets next to and within the curbstone, so as to cause the least obstruction in such manner, and of such uniform height, size, color and material as shall be approved by the Public Lighting Commission and the Board of Public Works; the number of cross-arms, minimum distances same from the surface of the street, the proximity of different wires to each other, their arrangement, including guy wires, etc., to be approved by the Public Lighting Commission.
- Sec. 4. All operating and conducting mains and wires of any such person, persons or corporation shall be thoroughly and securely insulated with a material of sufficient thickness and durability to be not easily abraded or injured mechanically, and impervious to water, where deemed necessary by the Public Lighting Commission, and to be approved by the Public Lighting Commission. All conduits shall be laid in streets and avenues in a line parallel with the curb line thereof at such distance from the curbstone, or where the curbstone should be, as shall be designated by the Board of Public Works, and to a depth to be designated by the Board of Public Works. It is especially required that all service wires used by such person, persons or corporation shall be connected only with a main laid in a conduit in the alley or at the side of the street nearest to the building into which it is desired to conduct such service wires.
- Sec. 5. At least twenty-four hours before opening or excavating in any street alley or any public space for the above or for any other purpose, said person, persons or corporation shall notify the Board of Public Works in writing of such desire, stating the place where, and the object for which such opening is to be made, and obtain the permit of said Board, and in the opening and refilling of all openings and excavations made as aforesaid, the relaying of the pavement and other work necessary to the complete restoration of the street, pavement, sidewalks or grounds to equally good condition as when disturbed, the said person, persons or corporation, or its servant-

or employes, shall be under the supervision of the Board of Public Works, or its authorized agents, and shall promptly comply with any order or resolution of said Board or its agents, or the Common Council in reference thereto, nor shall any street, avenue or public place be allowed to remain open or incumbered for a longer period than shall be necessary to execute the work for which the same has been opened, and the Board of Public Works, or the Common Council, may determine the question of such necessity.

The earth removed in making such excavation shall be restored and the pavement be relaid by such person, persons or corporation in as good a condition as before the making of such excavation, and thereafter be maintained in as good a condition as the surrounding pavement until the street or alley in each case is repaved. No excavation in any street, or alley or public place shall be allowed to remain open, or said street, alley or public place be incumbered for a longer period than it shall

be necessary to execute the work for which the same is made.

The cost of restoring the earth or other cost arising from such excavations and the relaying of the pavement, and the repairs thereto caused by the opening of any such street, alley or public place shall be at the expense of said person, prsons or corporation, and said work shall be done under the supervision of the Board of Public Works, and the expense of such supervision shall be paid by said company on presentation of bills certified by said board, and any expense to which the city shall be put from the neglect of said company or its employes in the doing of any work, or the doing of the same in any unworkmanlike manner, of the digging of ditches or holes and erection of poles, or restoring the earth or any excavation, or relaying or replacing of any pavement, shall be paid in like manner by said company on presentation of the bill of costs certified by said Board of Public Works. And it shall be the duty of said person, persons or corporation in each instance to promptly pay all bills for labor and material, supervision, etc., incurred by the Board of Public Works in relaying and restoring any pavement or surface disturbed by said person, persons or corporation, and if said bills properly certified by the Board of Public Works remain unpaid for the space of thirty (30) days after the presentation to said person, persons or corporation, it shall be the duty of the Board of Public Works to pay over to the credit of the proper fund the amount of any bills so remaining unpaid from the guarantee money deposited by said person, persons or corporation with said Board, and on refusal, neglect or failure by such person, persons or corporation to make such guaranty money good to its full extent as herein first named, prior to the next meeting of the Common Council, the Board of Public Works shall report the facts in the case to the Common Council for such action by the latter body as is permitted or deemed proper under the terms of the ordinance.

- Sec. 6. The Public Lighting Commission shall have the supervision of the construction of all lines of wire erected in pursuance of the authority hereby granted, and all connections made with any building or buildings. In the stringing of line of wires or the laying of any conduits as herein provided, said Lighting Commission shall prescribe and determine the street or streets in which it shall be lawful to erect or construct lines of wires above ground and lay conduits in the ground, and no person shall erect any pole or train any wire for such lines above or in the ground in any street, alley or highway, excepting the same be authorized by such permit. Any person violating the provisions of this section shall be punished by a fine not exceeding five hundred dollars, and in the imposition of such fine the court may make a further sentence that the offender be imprisoned in the Detroit House of Correction until such fine be paid; provided, the term of imprisonment shall not exceed the period of six months.
- Sec. 7. Any permit hereby authorized shall not become operative and authorize the construction of any line of wires above ground, or the laying of any conduits until the person, persons or corporation to whom the same may be granted, shall have filed with the City Controller a satisfactory bond, to be approved by the Controller, in the sum of twenty-five thousand dollars (\$25,000), conditioned that the person, persons or corporation to whom such permit is granted will faithfully comply with and perform the terms and conditions of this ordinance, and such person or corporation shall also have deposited and shall keep on deposit with the City Treasurer the sum of two hundred dollars (\$200.00), to cover the exepense of the replacing of the earth in making the repairs to pavements required to be relaid by such person or company under the provisions of this ordinance, and as a guarantee for the prompt payment of any bills for such work presented by the Board of Public Works. Such deposit shall be kept good to the amount of two lundred dollars, and on failure to keep the same good to that amount, such permit shall become void.

Sec. 8. Whenever the Public Lighting Commission shall deem it for the public interest they may require as a condition to the issuing of any permit that the wires shall be laid in the public conduits, and if any wires shall be strung on poles along any highway and public conduits shall afterwards be laid therein, said commission may require the wires so strung upon poles to be taken down and in their stead suitable wires put in the public conduit, and upon any refusal to do so may remove the same. Said commission may prescribe the terms and conditions upon which the public conduits shall be used for such purpose.

Sec. 9. Any rights acquired under any such permit shall cease whenever the Common Council shall so direct, and all poles and wires shall thereupon be removed at the expense of the person, persons or corporation erecting or controlling the same.

Sec. 10. When any wires erected under any such permit shall interfere with any wires of the Public Lighting Commission, or with any telephone or telegraph wires of the Fire Commission or of the Police Department or other public service wires, the Public Lighting Commission may direct the removal of the same, or such alterations in relation thereto as will obviate or prevent such interference. When any person or corporation shall have erected a pole on any portion of the street or alley it shall be subject to the conditions that the Public Lighting Commission may authorize other persons or corporations to whom such permits may be granted to use such pole already erected and upon such terms and conditions as the Public Lighting Commission may direct.

The Public Lighting Commission may require that all poles shall be used to their maximum capacity and the lines thereon so distributed as to obtain such result. The Public Lighting Commission may require any person, persons or corporation occupying a certain right of way with line or lines of poles of insufficient capacity to accommodate the requirements of that locality to replace said poles with such other poles

as may be approved by the Public Lighting Commission.

Approved December 3d, 1900.

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Twelfth Annual Report of the COMMISSIONER of





ARKS and BOULEVARDS

City of DETROIT MICHIGAN



R. E. BOLGER, Commissioner.

M. P. HURLBUT, Secretary.

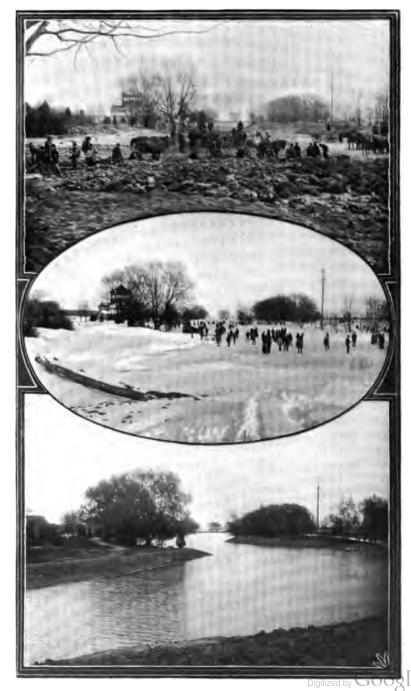
W. D. HEALY, Gen'l Sup't.

DETROIT:
RAYNOR & TAYLOR,
1901

A GLIMPSE



of BELLE ISLE



WORK OF DEEPENING.

SKATING.

SUMMER.



It is the instinct of man to turn to Nature and the wondrous miracles wrought by her, from the time of the springing of the grass, the budding of the trees and the unfolding of the flowers, to the melancholy days when the beauties of the season die in the sombre hues of the declining year.

There is no one so hardened, no one so mercenary, no one so wedded to the seductions of fortune-getting, that he does not long for the season of Nature's beauty, for the enjoyment afforded by her trees, her shrubs, her flowers, the fragrance of her foliage, the breezes wafted over the cooling waters, her marvelous blending of colors, the singing of wild birds, and that incomparable intermingling of delightful pleasure with all that is best and most ennobling in our common humanity. It is to meet this crowing for the primitive charms of Nature, which mean health, recreation. o temporary release from the cares of life and renewed strength for again meeting them, that cities spend so much for the parks that are the delightful pleasure ground of their people. We have at our very doors the woodland, the green sward of the meadows, the driveways arched with interlacing branches, the shaded nooks and the running streams. All that is prought by the necromancy of Nature is enhanced by the best that art and experience can contribute. They indite to rest the soul and body. They are all the lovelier and more entrancing as you contrast them with the heat, the din and the nerberacking life in a great city, Where the walled streets seem as prisons and the atmosphere on a hot summer day is that of an inferno. step from this into the cool and restful quiet of our Island Park—the envy of the world—is an emancipation and an inspiration. It brings to all the soothing touch of Nature in her happiest mood and most delightful adornment. We have within our own city limits and as our own rest, a spot so fascinating to every sense of beauty that thousands travel annually half across the continent to see what is ours for daily enjoyment. The parks are for you. Set apart a time to be Digitized by GOOGLE idle and enjoy the beauties of Nature.



Park Commissioners Under the Act of 1871.

G. V. N. LOTHROP, ROBERT P. TOMS, JOHN J. BAGLEY, MERRILL I. MILLS, JOHN J. BAGLEY,

A. SMITH BAGG, MERRILL I. MILLS, WM. A. BUTLER,

CHAS. I. WALKER,

CHAS. C. TROWBRIDGE.

Park Commissioners Appointed in 1879 by Mayor Langdon.

THEO. CHAPOTON, AUGUST GOEBEL,

W. K. Muir, E. F. Conely,

JOHN PRIDGEON, JR. W. B. MORAN.

Board of Belle Isle Park Commissioners Organized September 6, 1881.

NAMES.	Appointed.	Expiration of Terms.	REMARKS.
MERRILL I. MILLS	.Aug. 30, 1881	.Aug. 31, 1882	
Aug. Marxhausen	.Aug. 31, 1881	.Aug. 31, 1883	Re-appointed.
WM. A. MOORE	.Aug. 30, 1881	.Aug. 31, 1884	Re-appointed.
JAS. McMillan			
WM. B. MORAN	Sept. 1, 1882	.Aug. 31, 1886	•
Aug. Marxhausen	Sept, 1, 1883	.Aug. 31, 1887	
DEXTER M. FERRY	.Feb. 15, 1884	.Aug. 31, 1885	Filling unexpired term of Jase McMillan, SIC

NAMES.	Appointed.	Expiration of Term.	REMARKS.
WM. A. MOORE	Aug. 31, 1884	.Aug. 31, 1888	Resigned 1887. E. T. Slocum appointed for unexpired term.
Jos. A. Marsh	Jan. 22, 1886	.Aug. 31, 1889	
ELLIOTT T. SLOCUM	Mar. 22, 1886	.Aug. 31, 1888	Filling unexpired term of Wm. A. Moore.
Fred. L. Seitz	Oct. 8, 1886	.Aug. 31, 1890	Resigned 1888. F. F. Palms filling unexpired term.
FRANCIS ADAMS	Aug. 12, 1887	.Aug. 31, 1891	Resigned in 1888.
FRANCIS F. PALMS	Aug. 1, 1888	.Aug. 31 1890	Filling unexpired term of F. L. Seitz, resigned.
Aug. Marxhausen	Aug. 1, 1888	.Aug. 31, 1891	Filling unexpired term of F. Adams, resigned.
ELLIOTT T. SLOCUMS	ept. 5, 1888	.Aug. 31, 1892	or - 1 - 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-

Under the Act of May 8, 1889, abrogating the Belle Isle Park Commission, the Commissioners of Parks and Boulevards was organized with four provisional Commissioners, HENRY M. DUFFIELD, ELLIOTT T. SLOCUM, FRANCIS PALMS and WM. B. MORAN, who were succeeded by the following

Commissioners of Parks and Boulevards:

NAMES.	Appointed.	Expiration of Term.	REMARKS.
GEO. H. RUSSELL	May 21, 1889	May 31, 1890	.Served until Jan. 9, 1891.
JOHN ERHARD	May 21, 1889	May 31, 1891	•
Wm. Livingstone. Jr	May 21, 1889	May 31, 1892	. Re-appointed.
WM. K. PARCHER			
FRED. A. BAKER	Jan. 9, 1891	.May 31, 1894	Resigned May 3, 1892. S. Baldwin appointed for unexpired term.
STEPHEN BALDWIN	May 3, 1892	May 31, 1894	Resigned Nov. 15, 1892. James E. Scripps appointed to fill unexpired term.
JAS. E. SCRIPPS	Nov. 15, 1892	May 31, 1894	. Re-appointed.
FRED GUENTHER	August, 1892	May 31, 1895	•
WM. LIVINGSTONE, JR	May, 1892	May 31, 1896	Resigned Nov. 28, 1893. Aug. Marxhausen appointed to fill unexpired terminated by
		IO	• Digitized by

NAMES.	Appointed.	Expiration of Term.	REMARKS.
Aug. Marxhausen	. Nov. 28, 1893.	.May 31, 1896	Declined to serve.
Geo. C. Wetherbee	.Jan. 9, 1894.	.May 31, 1896	Filling unexpired term of Wm. Livingstone, Jr.
Chas. K. Latham	.May 31, 1893.	.May 31, 1897	Resigned Dec. 31, 1896. James A. Randall appointed to fill unexpired term.
JAS. E. SCRIPPS	June 5, 1894.	.May 31, 1898	Resigned March 1, 1896. A. S. Parker appointed to fill unexpired term.
CARL SCHWEIKART	.June 11, 1895.	.May 31, 1899	Resigned June 13, 1898. Wm. Geist appointed to fill unexpired term.
ARTHUR S. PARKER	.Mar. 1, 1896.	.May 31, 1898	Filling unexpired term of Jas. E. Scripps.
P. H. A. BALSLEY	.June 1, 1896	.May 31, 1900	Re-appointed.
JAS. A. RANDALL	. Jan. 12, 1897.	.May 31, 1897	Filling unexpired term of C. K. Latham.
BENJ. R. HOYT	June 22, 1897.	.May 31, 1901	Resigned June 28, 1898. A. J. Murphy appointed to fill unexpired term.
EDWARD C. VANLEYEN.	.June 6, 1898 .	. May 31, 1902.	
WM. GEIST	.June 13, 1898.	.May 31, 1899	Filling unexpired term of Carl Schweikart and re- appointed.
ALFRED J. MURPHY	June 28, 1898.	.May 31, 1901	Resigned April 11, 1899.
ALEXANDER W. BLAIN.	Apr. 18, 1899.	May 31, 1901	To fill unexpired term of A. J. Murphy.
WM. GEIST	May 31, 1899 .	. May 31, 1903.	
P. H. A. BALSLEY	May 31, 1900	May 31, 1904.	

Under the act of May 4, 1901 abrogating the Commissioners of Parks and Boulevards, The Commissioner of Parks and Boulevards was created.

Commissioner of Parks and Boulevards:

NAME.	Appointed. Term.	
R. E. BOLGER		June 1, 1901 to May 31, 1905





CITY OF DETROIT, July 1, 1901.

To the Honorable, the Common Council:

Gentlemen:—In accordance with an Act of the Legislature creating the Park and Boulevard Commission, it is provided that a report shall be made to your honorable body. Accordingly, this, the twelfth annual report, for the fiscal year commencing July 1, 1900, and ending June 30, 1901, is submitted for your consideration, containing, together with the general synopsis of the work accomplished, the statistics and detailed accounts by the Secretary of the receipts and disbursements. Also a more comprehensive summary of the work done in the several departments, both as to improvements and maintenance, is set forth in General Superintendent, R. J. Coryell's report from July 1, 1900, to May 31, 1901, who resigned at this time.

Membership of the Commission.

The Board for the first eleven months of the fiscal year was composed of four members, in accordance with the Act creating the Commissioners of Parks and Boulevards, as follows:

A. W. BLAIN, President.

EDWARD C. VAN LEVEN, Vice-President.

WM. GEIST,

P. H. A. BALSLEY.

An Act of the Legislature approved May 4, 1901, abolished the Commissioners of Parks and Boulevards and created a one-man Commission, known as the Commissioner of Parks and Boulevards.

The Common Council under the act appointed Robert E. Bolger, Commissioner on May 4, 1901, to serve for four years from June 1, 1901, at a salary of \$5,000 per year, who having qualified, entered upon his duties on June 1, 1901.

There has been done in this department work of great value in collecting data of the underground water system, sewerage, etc. and recording the same in the Park Board office for future reference. Thus far, there have been completed, or practi-



NEW PARK PHAETON-BELLE ISLE.

cally so, two large volumes of sectional maps of Belle Isle Park and one of the Boulevard. These maps show the location of all improvements both above and below the ground.

Barns, Horses and Vehicles:

This department is a most important one to the park and boulevard system. At the commencement of the fiscal year,

forty-two horses were owned, twenty-five were purchased during the year for \$3,128.25. Fifteen disabled horses were sold for \$905.00 and seven died from various causes, leaving forty-five horses in possession of the commission on June 30, 1901. The year's maintenance of this department was \$15,318.43.

The records show that the horses worked 16,032 days and figuring on a basis of hiring the teaming done, each horse



NEW GREEN-HOUSES-BELLE ISLE.

would cost \$1.00 per day or a total of \$16,032, showing a profit of \$713.57 to the city over and above the cost of care and repair of vehicles; thus it is evident that it is cheaper to own than to hire horses.

The old range of greenhouses has outlived its usefulness. The houses being constructed of wood have decayed to that extent that new ranges were an absolute necessity. An appropriation in the past two years amounting to \$12.000 having been allowed, a service building and three of the proposed ranges have been

about completed at a cost of \$11,059.52. There are yet to build seven ranges in order to complete the greeenhouses as proposed, and when completed, the commission will be able to supply all the plants required for the park system of a much



STEAM ROAD ROLLER-BELLE ISLE.

more vigorous quality than ever before and at a much less cost. The new ranges are of permanent character, being built of brick and steel framework.

Carpentry
Department: buildings for the park system, which is no small item, as many of the structures are of wood and fast decaying. In addition to this, the vehicles, swings, settees, rustic work, etc. are kept in repair, beside building new swings and whatever may be required.

A six-ton steam road roller which can be weighted to seven and one-half tons has been added to the implements of the park system at a cost of \$1,750, which permits now of the rolling of the park roadways, which is much superior to the old method of rolling with a horse roller and at less cost. The commission is now well equipped with road rollers, having beside the one just mentioned, a twelve-ton steam road roller for boulevard purposes.

Assessments: The Commission under the act creating it, constructed 2,426 square feet of cement sidewalk at various points along the boulevard and a special assessment was levied against the abutting property for the same, as follows:

Sidewalk assessment rolls No. 6470 to 6475 inclusive		
Lot 2, south side Boulevard, between Frontenac and McDougall, Waltz's Sub. of lot 11, Collins farm, 180 sq. ft., at 12c	\$ 21	60
Lot 3, south side Boulevard, between Frontenac and McDougall, Waltz's Sub. of lot 11, Collins farm, 180 sq. ft., at 12c	21	60
Lot 63, south side Boulevard, between St. Aubin and D., G. H. & M. R. R., Harrah & Brandenburg's Boulevard Sub. of that part of lot 14 lying west of St. Aubin Avenue, and a part of lot 15 of Theodore J. and Dennis J. Campau's Sub. of Frac. Sections 29 and 32, 180 sq. ft., at 12c	21	60
Lot 61, south side Boulevard, between St. Aubin and D., G. H. & M. R. R., Harrah & Brandenburg's Boulevard Sub. of that part of lot 14 lying west of St. Aubin Avenue, and a part of lot 15 of Theodore J. and Dennis J. Campau's Sub. of Frac. Sections 29 and 32, 180 sq. ft., at 12c	21	60
Lot 60, south side Boulevard, between St. Aubin and D., G. H. & M. R. R., Harrah & Brandenburg's Boulevard Sub. of that part of lot 15 of Theodore J. and Dennis J. Campau's Sub. of Frac. Sections 29 and 32, 180 sq. ft., at 12c	21	60
Lot 110, east side Boulevard, between Trombly and Milwaukee, Wm. C. Maybury's Sub. of lot 10 of Theodore J. and Dennis J. Campau's Plat of the Sub. of Frac. Sections 29 and 32, 180 sq. ft., at 120.	21	60
N. 28 ft. of lot 25 of Chas. F. Campau's Sub. of the west ½ of P. C. 78 north of Chicago Road, west side of Boulevard, between Mich-		
igan and Myrtle, 168 sq. ft., at 12c	20	16

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The general attendance at the band concerts has largely increased. The musical program was varied to suit all classes and a conservative estimate places the attendance at many of the concerts at 25,000.

Aquarium and Horticultural Building:

In 1899, park improvement bonds for \$150,000 were issued and sold for the erection and equipment of a combined aquarium and horticultural building. The requirements

of the building were determined, as near as may be. in January, 1900 and the site selected on February 3 following, but



CAST AT SEVILLE, SPAIN, MAY 29, 1779; CAPTURED IN THE HARBOR DEFE SES OF SANTIAGO, CUBA, JULY 14, 1898—BELLE ISLE.

owing to the project of building a bi-centenary memorial on Belle Isle Park, designs were not asked for until the fall of 1900. Eighteen of the resident architects signified their intention to enter the competition for the designs of the proposed building under the code prepared for the purpose by a committee from the Michigan Chapter of the American Institute of Architects who worked in conjunction with the Commissioners of Parks and Boulevards. However, on October

West side of Boulevard, between Michigan and Myrtle, lot 27 of Chas. F. Campau's Sub. of the west ½ of P. C. 78 north of Chicago Road, 300 sq. ft., at 12c	_	00
West side Boulevard, between Michigan and Myrtle, lot 29 of Chas. F. Campau's Sub. of the west ½ of P. C. 78 north of Chicago Road, 300 sq. ft., at 12c		00
East side of Boulevard, between Fort and Porter, lot 2, Davis Sub. of the ely. 295 ft. of the s. 449.03 ft. of the s. 534.46 ft. of P. C. 78 lying s. of the s. line of Porter Street, 300 sq. ft., at 12c		00
East side of Boulevard, between Fort and Porter, n. 20 ft. of lot 3, Davis sub. of ely. 295 ft. of the s. 449.03 ft. of the s. 534.46 ft. of P. C. 78 lying s. of the s. line of Porter Street, 120 sq. ft., at 12c		40
East side of Boulevard, between Howard and Fort Street, lot A of Davis Sub. of part of the A. Campau farm P. C. 78, 158 sq. ft., at 12c.	18	96
	\$291	I 2

Shade Trees on Public Streets:

In the last two annual reports, the attention of your honorable body was called to the fact that many of the trees along the public streets are being greatly injured by insect pests and that some action should be taken whereby the trees along the public streets which are the pride of every citizen, could be cared for.

Play Grounds for Your attention was called to this subject in last year's report. It has been thoroughly demonstrated in many of the eastern cities that play grounds for children do much good; they afford them a place to exercise other than in the streets, which tends to educate them both physically and morally, thus making them better men and women.

Among the most delightful and successful features of enjoyment on the parks by the multitudes of people during the past season were the popular open air band concerts which were given on Sunday afternoons alternately at Belle Isle and Clark Parks, and on week days, two concerts were given daily, distributed among the larger parks. Thousands of people were lured from the sultry, dusty streets to the fresh air of the parks.

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owing to the project of building a bi-centenary memorial on Belle Isle Park, designs were not asked for until the fall of 1900. Eighteen of the resident architects signified their intention to enter the competition for the designs of the proposed building under the code prepared for the purpose by a committee from the Michigan Chapter of the American Institute of Architects who worked in conjunction with the Commissioners of Parks and Boulevards. However, on October

15, 1900, the date of the closing of the competition, but eight designs were submitted and the custodian, M. P. Hurlbut, shipped them, unopened, to the jury selected to pass upon them, which met in New York City, at the Hotel Cadillac, October 17, 1900. The jury was composed of the following gentlemen:

John G. Howard, Architect, New York City. Cass Gilbert, Architect, New York City. Wm. DeC. Ravenel, Aquarist, Washington, D. C. J. F. Cowell, Horticulturist, Buffalo, N. Y.



BRIDGE NO. 10, ON PICNIC WAY-BELLE ISLE.

The report of the jury, signed by each member thereof and dated October 18, 1900, is as follows:

"We have the honor herewith to submit our report in the matter of the competition for the proposed aquarium and horticultural building to be erected on Belle Isle Park in the City of Detroit. "Of the eight designs submitted for our inspection, we find No. 1 to be distinctly the best.

"The three designs which we find to be next in order of merit are Nos. 5, 7 and 2.

"In our judgment, any one of the four designs above mentioned can be constructed within the appropriation of \$100,000."



BRIDGE NO. 12, ON THE STRAND-BELLE ISLE.

The names of the designers of the premiated plans are as follows:

- No. 1. Nettleton & Kahn, (now Mason & Kahn.)
- No. 5. Geo. H. Ropes.
- No. 7. Edward A. Schilling.
- No. 2. F. Carl Pollmar.

At the present time, Mason & Kahn, successors to Nettleton & Kahn, are perfecting the plans and specifications for



the proposed combined building and each of the other above mentioned architects was awarded \$200.00 in accordance with the code of competition, and the jurors were each paid \$150.00 for professional services.

Belle Isle
Park:
There have been two permanent bridges
built on this park during the past fiscal year,
the material being stone and steel; the larger
bridge, known as No. 10, being located on Picnic Way near
The Strand. spanning the canal at its entrance into Lake



WOLF RUNWAY-BELLE ISLE.

Takoma, the contract price of the bridge being \$5,800.00. The other bridge, known as No. 12, is located on The Strand at the south side of Belle Isle Park, spanning the south inlet to Nashua Canal, the contract price being \$3,000.

The plank roadways of bridges Nos. 2 and 7 have been replaced by expanded metal and concrete.



The roadways commencing at Belle Isle casino were resurfaced east to nearly Inselruhe avenue.

The Belle Isle bridge approach has been ornamented and improved, which adds much to the attractiveness of this portion of Belle Isle Park.



MOOSE-BELLE ISLE.

The south inlet to Nashua Canal and the inlet to Lake Okonoka has been dredged, also Lake Takoma has been deepened as far as the money appropriated would allow, some \$4,000 being required to complete the work. However,

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much benefit is derived from the work already done as is shown in Lake Takoma and Loop Canal.

A new wooden footbridge was built across the canal at the boat-house, the old one being dangerous.

Three ornamental sanitary ice-water drinking fountains were constructed in the picnic grounds, and this work should be continued from time to time until all the unsanitary water tanks have been replaced by new and healthful drinking places.



GRIZZLY BEAR-BELLE ISLE.

The zoological department has received its due share of improvements. A new fence has been erected around the lagoons. A coonery has been added thereto which has proven to be quite an attraction. The collection of animals has been increased by the addition of three fine specimens of the polar bear. They were captured in Greenland in 1895. Two moose have also been placed in the collection. There are on exhibition in the zoological department: aligators, buffalo; polar, grizzly and black bears; badgers; India silky and frizzy chickens; ducks, of various kinds; Virginia

deer, bald and golden eagles, elk and moose, wild and Poland geese, blue heron, Canadian lynx, ostriches, owls of various species, prairie dogs; silver, Amherst, ringneck. golden and Mongolian pheasants; pea fowls, several varieties of pigeons, raccoons, English hare, mute swan, white wild turkeys; timber, grey and coyotte wolves; monkey and Zebu.

A new large phæton at a cost of \$545.00 was added to the phæton service, which materially assists in transporting the large crowds across Belle Isle bridge.

The phæton registers show that during the last fiscal year there were 231,774 passengers carried across Belle Isle bridge, and 35,869 were carried around the park, the receipts being \$10,071.84.

The capacity of the bath-house has been increased by the addition of a number of rooms upstairs over the main office. The bath-house was patronized extensively as is shown by the cash register. 35,914 men and boys and 3,471 women and girls bathed during the season, the total receipts being \$2.164.50.

The maintenance of Belle Isle Park was carried on in the most economical manner consistent with the large crowds which gather there, yet it is impossible to keep the park as it should be for the allotted appropriation and many things suffer for the lack of funds. It is hoped that sufficient funds in the future will be appropriated to care properly for the maintenance, as improvements should be cared for or not made.

Palmer Park:

The new entrance to Palmer Park from Woodward avenue to the park proper has been nearly completed. The foot paths and most of the roadways are made and the lawns largely planted. Near Woodward avenue at the loop of the street car line, there was erected a log waiting room, the United Railway Co. donating \$600.00 toward the erection thereof. The log waiting room harmonizes with the general rural effects carried out on the park.

Many minor improvements have been made and the maintenance kept up to the highest degree that the money allowed would permit. The water main has been extended to the six mile road where it is hoped connection can soon be made with the Highland Park Woodward avenue mains, at



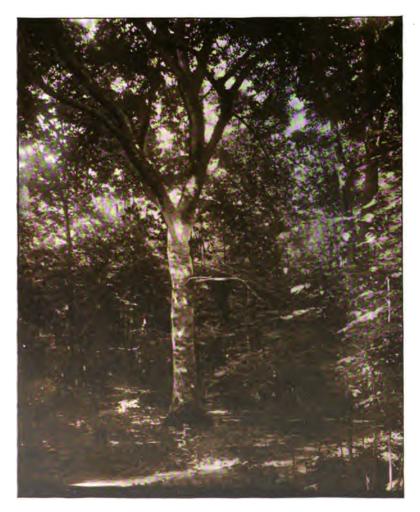
BEECH TREE-PALMER PARK.

which time the park will be supplied with city water. The water used at the present time is supplied by Sen. T. W. Palmer from mineral wells, which is detrimental to growing plants.

Arboretum: The arboretum is now well under way, which when completed will be a valuable addition to the park and boulevard system, especially from an educational standpoint, as it is proposed to have all the varieties of trees and shrubs growing there that are native to Michigan.

Nursery: A nursery has been established to supply the park and boulevard system and within a short time all the trees and shrubs required will be taken therefrom. It is found that they can be grown at a much less

price than the same can be purchased for from commercial nurseries, besides the advantage gained in planting where



NATIVE FOREST-PALMER PARK.

the stock is transplanted the same day it is removed from the nursery rows, avoiding many dangers of loss which arise from the purchase of stock from distant nurseries.



washington parkway—winter and summer gitized by Google

Clark
Park:
The water system in this park has been practically completed and extensive border planting has been done, which adds greatly to the appearance of the park.

The area of this park is insufficient for the multitudes that gather there and the addition talked of to be used as an athletic field will be much appreciated by a mass af people, and legal proceedings are now in progress to acquire the same.

City Parks: The general improvement in Owen Park was carried forward as far as the money appropriated would permit and a stone drinking fountain was provided for in Grand Circus Park and all of the other city parks received their due share of improvement in the way of planting, walks, lawns, surface and sprinkling pipe system, etc.

Boulevard: The sidewalk and roadway intersections along the Boulevard have been put in in accordance with the money alloted. A new roadway on the north side of the main driveway from Russell street to Dequindre street bridge has been constructed, permitting ingress and egress to the factories located there.

The lawns along the Boulevard were brought to grade so far as possible and many other improvements were made as required.

The maintenance of the lawns and roadways was kept to the highest standard consistent with the allowance for the purpose.

The unfinished sections of the Boulevard, from Mack to Gratiot on the east side and from Buchanan to Myrtle street on the west, should be completed at an early date.

The extension of the Boulevard from Fort street south to the river has been recommended by the Commissioners of Parks and Boulevards and also by the Common Council and proceedings are now under way to acquire the right-of-way.

Condemnation proceedings are now in progress to acquire a strip of land on the east side of Belle Isle bridge approach

from Jefferson avenue to the channel bank for the purpose of widening the bridge approach, it now being very much congested, and also for the purpose of having room upon which to place a waiting room and lavatory.

Policy of the Commission has been strictly adhered to, i. e., that the parks shall always be open to all citizens on absolutely equal terms, special privileges to none, nor the use of the



LILACS-NORTHERN GRAND BOULEVARD WEST.

parks given to anyone for any purpose not practically common to all, and consistent with the proper use of public parks.

Conclusion:
The parks and boulevards are growing in importance and in popularity as is shown by the increasing number of pleasure seekers who throng them.

Yearly the maintenance increases owing to new improvements; therefore your honorable body is earnestly asked to consider this matter in granting the appropriations, as sufficient money should be provided to properly maintain the system in keeping with the improvements.

The Gen'l Superintendent's report in detail from July 1, 1900, to May 31, 1901, and the Secretary's financial report for the fiscal year are both included as a part of this report.

Respectfully submitted,

Commissioners of Parks and Boulevards, from

July 1, 1900 to May 31, 1901.

M. P. HURLBUT, Sec'y and Gen'l Mngr.

A. W. BLAIN, President.

EDWARD C. VANLEYEN, Vice-President.

WILLIAM GEIST.

P. H. A. BALSLEY.

Commissioner of Parks and
Boulevards, from

June 1, 1901, to June 30, 1901.

M. P. HURLBUT, Sec'y.

R. E. BOLGER,

Commissioner



SCENES ON BELLE ISLE.



GENERAL UPERINTENDENT'S REPORT

6.9

To the Honorable, The Commissioners of Parks and Boulevards:

GENTLEMEN:

The following report submits for your consideration the work done on the park system for the first eleven months of the present fiscal year.

The seasons have been very favorable for park work. Timely rains during July and August, absence of severe freezing weather until December, ample protection of vegetation by snow during the severe weather of the winter, an early spring with cool rains during May, all combined were for the best health of the plants and lawns. It also gave ample time for each stage of the work and to accomplish it at a reasonable expense. Add to this the many little improvements for the past three years on lawns, roadways, buildings, seats and appliances of all kinds results in placing the system in a fair degree of excellence.

The work on the city parks and boulevards was commenced fully a month earlier than usual, and they were placed in a presentable condition as soon as they could be used by the people. The work on Belle Isle Park, because of the low and level character of the ground, precludes the possibility of doing the spring work in advance of settled weather. While on the other hand, there can be seen many things which should be done that the beauty of the parks may be enjoyed without the presence of any untidyness, yet



CACTI BED-BELLE ISLE.

it is a source of gratification that the work is being carried along and the system is yearly improving without any appreciable expenditure in maintenance.

Engineering
Department:

The work on the survey of Belle Isle Park, as noted in the previous annual report, was continued. The location of the trees and shrubs on the boulevard map has been completed, and much time has been given to the making of maps and compiling descriptions of property for the condemnation of land for park purposes, besides the routine work of laying out grades and lines for such park work as demand them.

Greenhouse
Department:
For the season of 1900 there were raised and set out in each park the following number of bedding plants; the wholesale value of which is set opposite each:

Location.	No. Plants.	Value.
Belle Isle Park,	133,897	\$ 4,6 4 9. 2 0
Boulevard,	2,226	114.20
Cadillac,	305	20.63
Campau,	1,040	46.55
Capitol,	7,546	308.78
Cass,	4,080	177.65
City Hall Lawn,	18,002	1,036.14
Clark,	4,380	165.03
Clinton,	500	33.40
Grand Circus,	9,652	548.85
Harmonie,	665	37.50
Owen,	433	22.44
Palmer,	3.325	127 83
Perrien,	525	24.75
Police Stations,	3,88o	132.15
School grounds,	450	24.00
Soldiers' Monument,	2, 165	124.90
Stanton,	1,034	58.15
Washington,	1,423	63.76
West,	70	4 75
	195,578	\$7,720.66

Besides these, there were 3,044 palms, ferns and miscellaneous foliage plants, the value of which is \$10,920, which were used to decorate Belle Isle Park, City Hall lawn and several other city parks. These latter plants occupied considerable greenhouse room and cost about one-half of the expenditures of this department for their care. The expense of raising and caring for all these plants, preparing the beds and setting the plants out, was \$7,436.09.

A complete range of propagating houses has been planned and as many built as the appropriation would allow, which was the service building, houses No. 2 and 3, which are each 20×100 feet, and house No. 6, which is 20×40 . The ranges

are planned for detached houses as much as possible, which will allow the hardening off of the bedding plants without the expensive hot bed work now in vogue.

It being the aim for the past year to do Barns, Horses the team work of maintenance with Park and Vehicle Board teams, horses were purchased in addi-Department: tion to the funds appropriated. Nine horses were used on the city parks and boulevards, three on Palmer Park, and the remainder on Belle Isle Park, for phaeton service and general work. During the months of November and December about forty horses were used daily in cleaning out lakes and canals, thereby making a great saving over hiring the teams. During the winter the horses were kept busy in hauling slag and manure when not employed otherwise. During the year, the horses belonging to the Commission performed 16,032 days work, while the cost of the care and feed for the same time is \$12,836.53, which shows the economy of the Commission owning to a great extent its own teams.

The shoeing of the horses, the repairs to vehicles and harnesses was done by the Commission. Not only was the work done more economically, but much valuable time was saved in running to the shops.

Fifteen horses were sold during the year, of which five were disposed of after the fall work was done, and ten sold this spring on the advice of the attending physician. The price received was \$905.00. During the past year, seven horses died of diseases, as follows: Three, colic; one, spinal trouble; one, epizootic; one, hermatorea; and one, pneumonia. Nearly all of the horses were attacked a year ago with distemper and the death of the horses lost was indirectly caused by this disease.

No. of horses	in pos	session	of th	e B	oard :	at the	
beginning	of th	ie prese	nt fis	cal	year,		42
No. sold,	-	-		-		-	15
No. died,	-		-		-		7
No. purchased	i,	-		-		-	25
No. on hand I	May 3	ıst, 190	ı,		-		45

Four new sprinklers were purchased, the tanks being galvanized iron and holding 1,000 gallons each. The wheels have 6 inch treads, the hind wheels traveling outside of the front wheels, which act as a roller to the driveways to a considerable extent. In addition there were purchased four work



NURSERY-PALMER PARK.

wagons, a single horse truck for greenhouse department, besides making over an ice wagon, one cart and several harnesses.

The need of storage facilities for vehicles and forage is very great. The present shelter is a delapidated, makeshift of an affair, and the trouble to pack away the vehicles in the limited space prohibits it being done during the working season, and the loss by exposure to the elements is no inconsiderable amount.

During the past fiscal year the Nursery has become thoroughly established and the propagation of plants is proceeding very rapidly. A frost proof storage pit has been erected in connection with the propagating house in which plants are held in a dormant state through the winter. It is also largely used for the purpose of storing cuttings that have been started in the propagating house, and many cuttings of easy propagation are placed directly in this house in which they callouse and root very Many valuable trees and shrubs have been gathered from the woods and fields adjoining and placed in nursery rows. A large number of layers were made during the past summer in the nursery and on various parts of the park system and are now planted out in nursery rows. The trees and shrubs planted on the park system during the past year dug from the nursery were all charged to the expense of maintaining this department. During the winter 55,348 cuttings were made and this spring planted in cutting beds, and from present indications a large per cent will grow. There was also sown large quantities of seeds which are now germinating. The following is the inventory of the work in the nursery department for the past fiscal year:

STOCK PLANTED OUT.

	Trees.	Shrubs.	Herbaceous Perennials.	Total.
No. Value,	1,439 \$1,019.98	5,684 \$ 611.77	1,581 \$1 2 9.48	8,704 \$ 1,761.23
	STOC	K IN THE	NURSERY.	

	Trees.	Shrubs.	Herbaceous Perennials.	Total.
No.	16,426	18,675	1,684	36,785
Value,	\$1,301.70	\$1,092.22	\$188.44	\$2,582.36

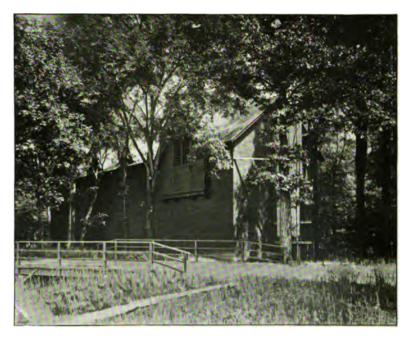
Belle Isle
Park:

In maintenance, there has been no very great variation from that of the past year. The funds for this purpose were exhausted during the first week in March and the expense for the remainder of the year was met by using the various revenues of the park.



ICE WATER DRINKING FOUNTAINS-BELLE ISLE. Digitized by GOOGLE

The work in caring for the park is yearly becoming greater as the increasing facilities for accommodating large crowds is attracting visitors more than ever to the Island. The many shady nooks, the numerous retreats and the ever present view of the river offers so many attractive points to



NEW ICE HOUSE-BELLE ISLE.

loiter that all can secure the requisite privacy for family parties. All are accommodated with pleasure to themselves and without hindrance to others.

The phaeton service was taxed to its limit during July and August, as was also the bath house, the latter paying a profit over its running expenses, as is shown by the financial statement.

The main improvements to Belle Isle Park are itemized as follows:

The bridge approach was completed by making a concrete coping along the roadways, concrete foot walks for a short

distance from the bridge, the building of crushed stone foot walks, the seeding of the lawn and the planting of shrubs and trees, all of which exhausted the fund appropriated.

An icehouse 100 feet long by 30 feet wide by 24 feet high was built near Lake Muskoday. The capacity of this house



PICNIC PAVILION-BELLE ISLE.

is 1,580 tons. The old icehouses hold 926 tons. Both were filled, from which it is contemplated to supply the city parks as well as Belle Isle the coming summer.

A comprehensive plan for deepening and changing the canals and lagoons was adopted by the Board and the work was commenced and carried as far as the funds appropriated would allow. The north inlet to Lake Okonoka was dredged to the deep water in the river, the cut being about 700 feet long. The excavated dirt was used to stop up the inlet under bridge No. 17, through which the water forced into Lake Muskoday ran out again into the river and not through

the inland lakes and canals as designed. The inlet under bridge No. 12 was deepened by dredging and the work of deepening Lake Tacoma was about three-fourths accomplished and a new cut from Lake Takoma to Loop canal was completed. The plan contemplates a water way through Lake Takoma of 200 square feet of cross section through a new cut 150 square feet, and by the old power house 50 square



SWAN LAKE-BELLE ISLE.

feet. The water will be fed to Lake Takoma through the inlet under bridge No. 12, which is planned to give 140 square feet of cross section and through Nashue Canal, which will give 120 square feet. This large volume of supply, when the whole work is completed, will certainly make the desired current through Loop Canal; the work now although but partially done is giving admirable results in increasing the current in Lake Takoma and Loop Canal.

The increasing number of specimens in the zoological department, made it necessary that a considerable change be made in the grounds. Four wolf paddocks were made by a rearrangement of the one occupied by the timber wolves. The swan lagoons were closed by a serviceable steel wire fence of neat design and the level of the water was raised in two sections to cause a water fall and to more easily separate the water fowls and make room for water animals. It was planned to erect a shelter for the deer family. Looking to that end, a passage way was made between the deer and reindeer enclosure, which passage is now used to contain the moose purchased last fall. A coonery was erected and several specimens placed on exhibition. Three polar bears were purchased, to make room for which, three of the five black bears were sold.

The money appropriated for resurfacing roads and walks was used to resurface Central Ave. from the casino eastward nearly to Inselruhe Road. Granite screenings was used for road surfacing and placed on the gravel roadbed. 320 feet of roadway not having a foundation, the soil was excavated and a macadam road was constructed. A foot walk 1,750 feet long by 8 feet wide was made on the south side of Central Ave. from Muse Road to Inselruhe. Also most of the foot walks on the easterly half of the Island received a dressing of limestone, beside making many repairs to roads and walks not counted below.

	No. sq. Yards.	Approximate cost per sq. Yard.
Roads resurfaced,	8,766	18c.
Roads constructed,	1,400	75c.
Walks resurfaced,	25,424	2C.
Walks constructed,	1,555	50c.

Numerous repairs were made to buildings and fixtures, the work being mostly done by carpenters and painters in the employ of the Board. The shelter ferry dock was made safe by putting new footings to the posts and minor repairs to the passageway. A new picnic pavilion was added east of Picnic Way, several old ones repaired, rustic stands, seats and set-

tees were made over, and a large refrigerator room built in the casino. The boathouse and barns were repainted, besides numerous repairs necessary to keep the wooden fixtures in safe condition.

This part of the system was maintained to a satisfactory degree. All the shrubs and young trees received a dressing of manure, which consumed about 1,600 cubic yards. The lawns on the boulevard, for which there was a special appropriation, were kept well mowed, which added much to its neat appearance.



CANNON TAKEN FROM SPANISH SHIP VISCAYA AT BATTLE OF SANTIAGO, JULY 30, 1898—CADILLAC PARKWAY.

The itemized approvements are as follows;

CADILLAC PARK:

A Viscaya cannon was placed in this park and the surrounding lawn was releveled and sodded. The walks were all resurfaced and a number of shrubs used to enlarge the present plantations.

CASS PARK.

The lawns were thoroughly graded and sodded and the trees carefully pruned.

CLARK PARK:

Water pipe was laid in the south part of the park and in certain sections near the north end, which now completes this improvement, there being laid 3,689 feet of one inch pipe and 350 feet of four inch pipe. The borders of the park were extensively planted with trees, shrubs and herbaceous perennials consuming over 7,000 plants, of which 4,500 were trees and shrubs. One hundred iron settees were purchased for the park. A horse, a light truck and a horse lawn mower were added to the equipment, and six swings and a sand garden were provided for the smaller children. The small lake in this park was patronized by many skaters, while though being inadequate to the demand, answers the needs for this winter recreation for the smaller children.

GRAND CIRCUS PARK.

The walks on the west side were reestablished where required to meet the changed conditions of Washington Parkway, and all the walks were resurfaced. A cistern for ice water was also made on the west side, a drinking fountain not yet being completed. Both display fountains were thoroughly cleaned and repainted, the trees trimmed and lawns fertilized.

MEDBURY PARK.

The planting of trees and shrubs was extended as far as the appropriation would allow. A surface water system should be placed in this park in place of the hydrants which are too far apart to do rapid work in caring for the lawn.

OPERA HOUSE LAWN.

The Merrill fountain being about completed, the small portion of the lawn remaining was sodded and a number of

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privit shrubs were placed in the corners to prevent the making of footwalks across the sodded portions, these shrubs being placed before the protecting curb was put in position, had a hard time to survive the ill usage of people walking through them.



MERRILL FOUNTAIN-OPERA HOUSE LAWN.

OWEN PARK.

The lower half of the park was completed, as to bringing it to the established grade. The surface was enriched and seeded and landscaped to a small extent. Several thousand yards of material was dumped at the water's edge which extended the park about one hundred feet farther into the river. It is unfortunate that more liberal appropriations have not been made during the past three years, so that the rough work of filling would not now have to be carried through the finished portion of the park.

PERRIEN PARK.

The walks were resurfaced and a portion of the lawn brought to an even grade by the addition of rich loam and there now remains but a small portion of the park to be brought to a grade and leveled, so that the whole can be cut with a lawn mower. Many beds of shrubbery were enlarged and several additional trees planted.

STANTON PARK.

A concrete walk was laid through the park and around the fountain, which necessitated regrading and sodding of a portion of the lawn.

SECOND AVENUE PARKWAY.

The lawns were seeded and several scarlet oak trees planted. All further planting must wait until the water pipes are laid through the park.

VOIGT PARK.

The entire park was plowed, graded and seeded. No further improvement is advisable until water pipe is laid through the park and a sewer built so that the level of the lake can be controlled.

Washington
Parkway:

The location of the walks was changed and pipe systems for sprinkling the lawns were added to the two northerly sections. A display fountain of field boulders was built in the section directly north of Michigan Avenue. The water was kept running during the winter and made a pyramid of ice 36 feet high and about 40 feet in diameter. The daily change of the formation of the ice attracted thousands of visitors and was the subject of many newspaper cuts and paragraphs throughout the country. An ice water drinking place was made near this fountain and is in almost constant use.



The work of making this park was all completed from the funds of the present fiscal year and it presents an attractive appearance seldom obtained in most parks in several years as they are usually used for a public dump before being turned over to the Park Commission. The surface soil was retained in grading and a foundation for the rapid growth of the grass, shrubs and trees at once put them on a sure foundation and gave immediate results, which accounts for its present pleasing condition.

The money appropriated for lawns was large-Grand ly used in grading at the street intersections: many portions were reseeded, and those most exposed were sodded. The fund for planting was used to extend the beds already established, beside planting trees where most required. The roadway was repaired as far as filling the small ruts, but the need of a general resurfacing is imperative in certain sections as nothing but the foundation remains and no amount of sprinkling or rolling will keep it from disintegrating. The planking on Dequindre St. bridge was repaired where most needed, the funds not being sufficient to make the work complete in any one portion. A dangerous jog between Baker and Dix Ave. was removed by widening the roadway, and the lawn on the south side of Dix Ave. was cut back and the space macadamized. The two alleys north of Dix Ave. were changed from a dirt to macadam roadway and the four alleys directly north and south of Michigan Ave. were filled in and resurfaced so that the water would not stand on the footwalks. The main driveway was raised at Mt. Elliott Ave. where there was a bad crossing over the street car tracks. An intersection at Warren Ave. East was built and the intersections at Mack and St. Paul Avenues were resurfaced. The side driveway from Russell St. to the factories near Dequindre St. bridge was made to accommodate the factories at that point and to keep heavy traffic off from the main Boulevard driveway, there being heretofore no other entrance.

Palmer
Park:
During the past fiscal year the entrance to the park from Woodward Ave. was practically completed; the roads and walks constructed, the ground graded and seeded and 5,600 trees and shrubs planted. A log waiting room was constructed at the entrance to provide shelter for visitors while waiting for cars. The roads made comprise 7,560 square yards and walks 890 square yards, the cost being 35c per square yard for roads and 24c per sq.



WALK IN WOODS-PALMER PARK.

yard for walks. The material used was gravel, which was screened and the coarse material was used for foundation and the finer for surfacing. Granite screenings may be added for surfacing to the driveways when the traffic demands it. A water pipe was laid from the Six Mile Road to the line already in the park. A connection with the city main was

prevented because the Village of Highland Park did not extend their water pipe to the Six Mile Road. The pipe laid through the parkway is as follows:

550 feet eight inch main, 1,740 " six " " 345 " four " "

A water meter was placed at the park entrance and the necessary gates and five hydrants were placed where required. A conduit for electric lighting and telephone was placed



RAMBLE IN THE WOODS-PALMER PARK.

practically in the same trench for the water pipe in the preparation for lighting the park without the use of unsightly poles.

The botanic garden of Michigan plants commenced last year has been extended by the collection of as many species as could be obtained and there remains now but few species to add. Many specimens have been collected that appear to vary from the types as described by the authorities. They are grouped in their proper genus and their identification will be referred to specialists. The lawn of the arboretum has been graded and seeded and the plants as far as known properly labeled. The need of tiling the arboretum is apparent and for the sake of the health and thrift of the plants therein, it should be taken up before another winter. The grounds occupied by the nursery should be likewise drained, even though the unfinished road along the southerly side of the park should be left unimproved for another year. The following is a list of trees and shrubs native to Michigan, all of which are now placed in the arboretum excepting those marked with a star.



ABORETUM OF MICHIGAN PLANTS-PALMER PARK.



LIST OF

REES and SHRUBS

NATIVE TO MICHIGAN.

Those not Planted in PALMER PARK ARBORETUM



Abies balsamea (L.) Mill	Balsem Fir.
Acer Negundo L	Box Elder.
" nigrum Michx	Black Sugar Maple.
* " Pennsylvanicum L	
" rubrum L	
" saccharinum L	Silver Maple.
" Saccharum Marsh	Sugar Maple.
" spicatum Lam	Mountain Maple.
Æsculus glabra Willd	Feted Buckeye.
*Alnus Alnobetula (Ehrh.) K. Koch	Green Alder.
" incana (L.) Willd	Speckled Alder.
* " rugosa (DuRoi) K. Koch	Smooth Alder.
Amelanchier alnifolia Nutt	Northwestern June-berry
" Botryapium (L. f.) DC	Shadbush.
" Canadensis (L.) Medic	Service-berry.
* " oligocarpa (Michx.) Roem	Oblong-fruited June-berry
" rutundifolia (Michx) Roem	Round-leaved "
" spicata (Lam.) Dec	Low June-berry.
Amorpha canescens Pursh	Lead-plant.
Andromeda Polifolia L.	Wild Rosemary.
Aralia hispida Vent	Bristly Sarsaparilla.

Arctostaphylos Uva-Ursi (L.) SprengBearberry.	
Aronia arbutifolia (L.) EllRed Choke-berry.	
" nigra (Willd.) Britton	
Asimina triloba (L.) DunalNorth American Papaw	
Betula glandulosa Michx Scrub Birch.	•
" lenta L Cherry Birch.	
" lutea Michx. f	
" papyrifera Marsh Paper Birch.	
" pumila LLow Birch.	
Benzoin Benzoin (L.) Coulter Spice Bush,	
Carpinus Caroliniana Walt Blue Beech.	
Castanea dentata (Marsh) Borkh American Chestnut.	
Ceanothus Americanus L	
* '' ovatus DesfSmaller Red-root.	
Celastrus scandens L	
Celtis occidentalis L	
Cephalanthus occidentalis L	
Cercis Canadensis L	
Chamædaphne calyculata (L.) MænchLeather-leaf.	
Chiogenes hispidula (L.) T & G Creeping Snowberry.	
Clematis Virginiana LVirginia Virgin's Bowe	r
*Comptonia peregrina (L.) Coulter Sweet Fern.	••
Cornus alternifolia L. f	hor
" amonum Mill	,ou.
" asperifolia Michx	
* " Baileyi Coult. & EvansBailey's Cornel.	
* " Canadensis L	
" candidissima Marsh	
" circinata L'Her	i
" florida LFlowering Dogwood.	.•
" stolonifera Michx	
" stricta Lam Stiff Dogwood.	
Corylus Americana Walt Hazel-nut.	
" rostrata Ait	
Cratægus Crus-Galli L Cocksup Thorn.	
" coccinea L Scarlet Thorn.	
* " Douglasii Lindl	
" macracantha Lodd Long-spine Thorn.	
" mollis (T. & G.) SteeleRed-fruited Thorn.	
" punctata JacqLarge-fruited Thorn.	
rotundifolia (Ehrh.) BorckGlandular Thorn.	
" tomentosa I, Pear Thorn,	



Decodon verticillatus (L.) Ell	Swamp Loosestrife.
Diervilla Dierville (L.) MacM	
*Dirca palustris L	•
Euonymus Americanus L	·
" atropurepurus Jacq	
" obovatus Nutt	
Fagus Americana Sweet	_
Fraxinus Americana L	
" lanceolata Borck	
" nigra March	
" Pennsylvanica Marsh	
" quadrangulata Michx	
Gaultheria procumbens L.	
Gaylussacia resinosa (Ait.) T. & G	
Gleditsia triacanthos L	
Gymnocladus dioica (L.) Koch	•
Hamamelis Virginiana L	
Helianthenium Canadense (L.) Michx	
" majus (L.) B. S. P	
Hicoria alba (L.) Britton	
" borealis Ashe	
" glabra (Mill.) Britton	
" laciniosa (Michx. f.) Sarg	
" microcarpa (Nutt.) Britton	Small-fruited Hickory.
" minima (Marsh.) Britton	Bitter-nut.
" ovata (Mill.) Britton	Shag-bark.
*Hudsonia tomentosa Nutt	False Heather.
Hypericum densiflorum Purch	Bushy St. John's Wort.
" Kalmianum L	Kalm's St. John's Wort.
" prolificum L	. Shrubby St. John's Wort.
Ilex verticillata (L.) A. Gray	Virginia Winter-berry.
Icilioides mucronata (L.) Britton	Mountain Holly.
Juglans cinerea L	Butternut.
" nigra L	Black Walnut.
Juniperus communis L	
" nana Willd	
" Sabina L	Shrubby Red Cedar.
" Virginiana L	Red Cedar.
Kalmia angustifolia L	
" glauca Ait	
Larix laricina (DuRoi) Koch	
*Lechea minor L	Thyme-leaved Pin-weed.

*Lechea tenuifolia Michx	Narrow-leaved Pin-weed.
" villosa Ell	Large Pin-weed.
Ledum Grænlandicum Œder	Labador Tea.
Lepargyræa Canadensis (L.) Greene	Canadian Buffalo-berry.
*Lespedeza Virginica (L.) Britton	
Liriodendron Tuliperifa L	Tulip-tree.
Lonicera ciliata Muhl	American Fly-honeysuckle.
* " cœrulea L	Blue Fly-honeysuckle.
" dioica L	Smooth-leaved Honeysuckle.
* " glaucescens Rydb	Douglas Honeysuckle.
" hirsuta Eaton	Hairy Honeysuckle.
" involucrata (Richards) Banks	Involucrated Fly-honeysuckle.
" oblongifolia (Goldie) Hook	Swamp Fly-honeysuckle.
* " Sullivanti A. Gray	Sullivant's Honeysuckle.
Malus coronaria (L.) Mill	American Crab Apple.
Menispermum Canadense L	Canada Moon Seed.
*Morus rubra L	Red Mulberry.
Myrica cerifera L	Wax-myrtle.
" Gale L	Sweet Gale.
Nyssa sylvatica Marsh	Pepperidge.
Opulaster opulifolius (L.) Kuntze	Nine-bark.
Ostrya Virginiana (Mill.) Willd	Hop Hornbean.
*Oxycoccus macrocarpus (Ait.) Pers	Large Cranberry.
" Oxycoccus (L.) MacM	Small Cranberry.
Parthenocissus quinquefolia (L.) Planch	Virginia Creeper.
" laciniata Planch.	Cut-leaved Virginia Creeper.
Picea brevifolia Peck	Swamp Spruce.
" Canadensis (Mill.) B. S. P	White Spruce.
" Mariana (Mill.) B. S. P	
*Pinus divaricata (Ait.) Sudw	Labidor Pine.
* " resinosa Ait	Red Pine.
" Strobus L	White Pine.
Platanus occidentalis L	•
Populus balsamifera L	
* " candicans (Ait.) A. Gray.	Balm of Gilead.
" deltoides Marsh	Cottonwood.
" grandidentata Michx	Large-toothed Aspen.
" tremuloides Michx	
Potentilla fruticosa L	
Prunus Americana Marsh	
" nigra Ait	
" Pennsylvanica L. f	Wild Red Cherry.

Dennis numila T	Cond Chamm
Prunus pumila L " serotina Ehrh	
" Virginiana L	
Ptelea trifoliata L	
	Three-leaved Hop-tree.
moins 1. & G	
Quercus acuminiata (Michx.) Sarg	
aida 1/	
coccinea wang	
impricaria Michx	•
" Leana Nutt	_
iyiata wait	
macrocarpa Michx	
Witchauxii Nutt	
" minor (Marsh.) Sarg	
" palustris Du Roi	
	Swamp White Oak.
<u>-</u>	Scrub Chestnut Oak.
" rubra L	
* " Texana Buckley	Texan Red Oak.
" velutina Lam	Black Oak.
*Rhamnus alnifolia L'Her	Alder-leaved Buckthorn.
·	
Rhus aromatica Ait	
	Fragrant Shumac.
Rhus aromatica Ait	Fragrant Shumac.
Rhus aromatica Ait " copallina L	Pragrant ShumacDwarf ShumacSmooth Shumac.
Rhus aromatica Ait " copallina L " glabra L	
Rhus aromatica Ait '' copallina L '' glabra L '' hirta (L.) Sudw	
Rhus aromatica Ait " copallina L " glabra L. " hirta (L.) Sudw " radicans L	
Rhus aromatica Ait " copallina L " glabra L. " hirta (L.) Sudw " radicans L " Vernix L	
Rhus aromatica Ait " copallina L " glabra L " hirta (L.) Sudw " radicans L " Vernix L Ribes Cynosbati L	
Rhus aromatica Ait	
Rhus aromatica Ait	
Rhus aromatica Ait " copallina L " glabra L " hirta (L.) Sudw " radicans L " Vernix L Ribes Cynosbati L " floridum L'Her * " gracile Michx " lacustre (Pers.) Poir " oxyacanthoides L	
Rhus aromatica Ait " copallina L " glabra L " hirta (L.) Sudw " radicans L " Vernix L Ribes Cynosbati L " floridum L'Her * " gracile Michx " lacustre (Pers.) Poir " oxyacanthoides L	
Rhus aromatica Ait " copallina L " glabra L " hirta (L.) Sudw " radicans L " Vernix L Ribes Cynosbati L " floridum L'Her " lacustre (Pers.) Poir " oxyacanthoides L " prostratum L'Her	Pragrant Shumac. Dwarf Shumac. Smooth Shumac. Staghorn Shumac. Poison Ivy. Poison Shumac. Wild Gooseberry. Wild Black Currant. Missouri Gooseberry. Swamp Gooseberry. Northern Gooseberry. Fetid Currant. Red Currant.
Rhus aromatica Ait	Pragrant Shumac. Dwarf Shumac. Smooth Shumac. Staghorn Shumac. Poison Ivy. Poison Shumac. Wild Gooseberry. Wild Black Currant. Missouri Gooseberry. Swamp Gooseberry. Northern Gooseberry. Fetid Currant. Red Currant. Prickly Rose.
Rhus aromatica Ait	Fragrant Shumac. Dwarf Shumac. Smooth Shumac. Staghorn Shumac. Poison Ivy. Poison Shumac. Wild Gooseberry. Wild Black Currant. Missouri Gooseberry. Swamp Gooseberry. Northern Gooseberry. Fetid Currant. Red Currant. Prickly Rose. Arkansas Rose.
Rhus aromatica Ait	Fragrant Shumac. Dwarf Shumac. Smooth Shumac. Staghorn Shumac. Poison Ivy. Poison Shumac. Wild Gooseberry. Wild Black Currant. Missouri Gooseberry. Swamp Gooseberry. Northern Gooseberry. Fetid Currant. Red Currant. Prickly Rose. Arkansas Rose. Smooth Rose.
Rhus aromatica Ait	Pragrant Shumac. Dwarf Shumac. Smooth Shumac. Staghorn Shumac. Poison Ivy. Poison Shumac. Wild Gooseberry. Wild Black Currant. Missouri Gooseberry. Swamp Gooseberry. Petid Currant. Red Currant. Prickly Rose. Arkansas Rose. Smooth Rose.
Rhus aromatica Ait	Fragrant Shumac. Dwarf Shumac. Smooth Shumac. Staghorn Shumac. Poison Ivy. Poison Shumac. Wild Gooseberry. Wild Black Currant. Missouri Gooseberry. Swamp Gooseberry. Northern Gooseberry. Fetid Currant. Red Currant. Prickly Rose. Arkansas Rose. Smooth Rose. Swamp Rose. Low Rose.
Rhus aromatica Ait	

Rubus Americanus (Pers.) Britton	Dwarf Raspberry.
" Baileyanus Britton	
" Canadensis L	•
" hispidus L	•
" Millspaughii Britton	
" neglectus Peck	- -
" odoratus L	
" occidentalis L	
" parviflorus Nutt	
" setosus Bigel	
" strigosus Michx	
" villosus Ait	
" " frondosus Bigel	
Salix adenophylla Hook	
* " amygdaloides Anders	-
* " balsamifera (Hook.) Barratt	
" Bebbiana Sarg	
" candida Fluegge	
" cordata Muhl	_
" " X candida	
" discolor Muhl	
* '' flaviatilis Nutt	
" glaucophylia Bebb	
" humilis Marsh	
" lucida Muhl	
* " myrtilloides L	•
" nigra Marsh	-
" petiolaris J. E. Smith	
* '' '' gracilis Anders	
* " purpurea L	
" sericea Marsh	
" tristis Ait	
Sambucus Canadensis L	•
" pubens Michx	-
Sassafras Sassafras (L.) Karst	
Smilax hispida Muhl	
Smilax rotundifolia I,	-
Solanum Dulcamara L.	
Sorbus Americana Marsh	9
" Sambucifolia (C. & S.) Roen	
Spiræa salicifolia L	
" tomentosa I	
CHICHEOGA AIRININ III IIIIIIII	

Staphylea trifolia L American Bladder-nut.
Symphoricarpos occidentalis Hook Wolfberry.
" pauciflorus (Robbins) BrittonLow Snowberry.
" racemosus MichxSnowberry.
" Symphoricarpos (L.) MacM Coralberry.
Taxus minor (Michx.) Britton American Yew.
Thuja occidentalis L White Cedar.
Tilia Americana L Bass-wood.
" heterophylla Vent
Tsuja Canadensis (L.) Carr Hemlock.
Ulmus Americana L American Elm.
" fulva Michx Slippery Elm.
" racemosa Thomas Cork Elm.
Vaccinium atrococcum (A. Gray) Heller Black Blueberry.
" Canadense Richards Canada Blueberry.
" coroymbosum L High-bush Blueberry.
* " membranaceum Dougl Thin-leaved Bilberry.
* " nigrum (Wood) Britton Low Black Blueberry.
* " ovalifolium J. E. Smith
" Pennsylvanicum Lam Dwarf Blueberry.
" uliginosum LGreat Bilberry.
' vacillans KalmLow Blueberry.
Viburnum acerifolium L
* '' alnifolium Marsh
cassinoides L Withe-rod.
" dentatum L Arrow-wood.
" Lentago L Nanny-berry.
" Opulus L Cranberry-tree.
pauciflorum PylaieFew-flowered Crauberry-tree.
prunifolium LBlack Haw.
" pubescens (Ait.) Pursh Arrow-wood.
Vitis bicolor LeConte Winter Grape.
" Labrusca L Northern Fox-grape.
" vulpina L
Xanthoxylum Americanum Mill Prickly Ash.
Xolisma ligustrina (I) Britton Privet Andromeda,

Respectfully submitted,

R. J. CORYELL,

Gen'l Supt.

May 31, 1901.













To the Honorable, The Commissioner of Parks and Boulevards:

DEAR SIR:

I have the honor to herewith submit the annual financial statement for the past fiscal year from July 1, 1900, to June 30, 1901, both days inclusive, showing the cash balance in the city treasury at the close of business on June 30, 1901, as follows:

Park and Boulevard Fund, - - \$9,177.87 Park Improvement Fund, - 148,127.93

Certified to by the Deputy City Controller as per his statement hereto attached.

The report also shows a list of the principal improvements and their cost, a statement of the amount of bonds issued, the estimates asked and the amounts allowed since 1889, also in tabulated form a complete list of expenditures of the park and boulevard system since 1854.

Respectfully submitted,

M. P. HURLBUT,

Secretary.

June 30, 1901.

OFFICE OF THE CONTROLLER,)
DETROIT, July 2, 1901.

HON. M. P. HURLBUT, Sec'y,

Park and Boulevard Commissioner, Detroit.

Respectfully,

HOWARD C. BECK,

Deputy Controller.

Financial Statement.

JULY 1, 1900 to June 30, 1901.

RECEIPTS.

Park	Improven	nent	Fund.
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Cash balance July 1, 1900...... \$149,567 15

EXPENDITURES.

RECEIPTS.

Park and Boulevard Fund.

 Cash balance, July 1, 1900......
 \$4,682 63

 Appropriation, 1900.....
 \$173,502 00

 Casino privilege, Belle Isle......
 2,700 00

Skating	pavilion privilege, Belle Isle	\$500	00		
	privilege, Belle Isle	400	00		
Bicycle	privilege, Belle Isle	223	97		
	rivilege, Belle Isle	475			
Soldiers	s' Monument fund	100	00		
Phæton	receipts	10,071	84		
Bath-ho	ouse receipts	2,164	50		
Casino	privilege, Palmer Park	162	68		
	icense	600	00		
	nding permits	250	00		
Bouleva	ard sidewalk assessments	373			
Detroit	Boat Club rental		00		
Detroit	Yacht Club rental	1	00		
Interest	on sidewalk assessments		29		
Bouleva	ard Encroachment leases	2	00		
United	Street Railway donation	600	00		
	horses	68 0	00		
4.6	cobble stone	612	90		
4.6	electric motor	125			
	dynamo	25	00		
"	engine, etc	410	00		
"	trees		00		
	chairs		50		
"	animals	94	00		
"	old iron, etc	34	36		
44	cement bags	20	30		
"	ice, Belle Isle	2	55	•	
"	" Palmer Park	23	52		
Sewer	contract, Palmer Park, refunded	25	25		
	ting Michigan Club	17	00		
Haulin	g, etc, for Lord & Burnham Co	11	2 I		
Sale of	crushed stone	21	6 0		
Rent o	f road roller	86	75		
Haulin	g for sundry persons	35	54		
Inspect	tion permits	36	25		
	ed for checks, deposited city treasury	37	65		
	appropriation for skating pavilion plat-				
form	n	250	റഠ	194,702	61
	Total			\$199,38 <u>5</u>	24

Park and Boulevard Fund.

EXPENDITURES.

GENERAL MAINTENANCE.

Administration.	
Salaries	I
Printing and stationery 1,383 5	3
Office rent, etc 1,204 9	2
Incidentals 172 I	5 \$8 899 oī -
Engineering Department.	
Salaries and wages \$1,423 1	3
Supplies 130 I	9 1.553 32
Telephones.	
Rent and repair	248 11
Green House Department.	
Propagation\$4,889 6	9
Planting floral, Belle Isle 1,622 5	
" city parks and boulevard, 366 6	3
Stock	
Fuel	7,796 12
Tools and Implements.	
Purchase 2,282 2	1
Repairs 767 15	3,049 39
Steam Road Roller.	
Engineer and wages 504 oc	a
Rent of Roller 1,000 00	
Repairs 114 37	
Fuel and supplies 203 3	7 1,821 83
Stone Crusher.	
Engineer, repairs and supplies 1,074 50)
Final purchase payment 187 75	

Barns, Horses and Vehicles.

Dains, Horses and Venicles.				
Maintenance of barns and horses	\$5,630	27		
Vehicles, repairs, etc	2,285	64		
Shoeing	833	79		
Harnesses, repairs	196	34		
Barn supplies	629	04		
Forage	4,356	35		
City barn rent, forage, etc	1,387	00	\$15,318 43	
Nursery.				
Labor	2,007	55		
Stock	121	H	2,128 66	
Band Concerts.				
Music			3,885 81	
Fertilizer.				
Purchase and gathering			475 13	
Total general maintenance,				\$ 46,438 o6
General Improvements.				
General Improvements. Horses, purchase	3,128	25		
-	3,128	25		
Horses, purchase	•	Ĭ		
Horses, purchase	1,211	Ĭ		
Horses, purchase Cobble, general use, purchase and hauling	1,211	95 72		
Horses, purchase Cobble, general use, purchase and hauling Labeling trees	1,211 20 138	95 72 60		
Horses, purchase Cobble, general use, purchase and hauling Labeling trees Settees, purchase and repair	1,211 20 138	95 72 60 24		
Horses, purchase	1,211 20 138 1,800	95 72 60 24 00		
Horses, purchase	1,211 20 138 1,800	95 72 60 24 00 37		
Horses, purchase Cobble, general use, purchase and hauling Labeling trees Settees, purchase and repair Sprinkling wagons, purchase Truck, purchase Harnesses, buggy, purchase Nursery storage pit Work wagons, purchase	1,211 20 138 1,800 143 81 770 414	95 72 60 24 00 37 63 10		
Horses, purchase	1,211 20 138 1,800 143 81 770 414	95 72 60 24 00 37 63 10		

BELLE ISLE MAINTENANCE.

General labor, etc	\$9,213	28
Settees and swings	103	57
Signs, etc	6	52
Cash registers	261	25

*** . 1 1	4 0			
Flower beds	•			
Material and supplies	649			
Drainage	78			
Trees and shrubs	1,462	-		
Flags and staff	70	72		
Scales	230			
Fuel	622	28	\$13,706	68
		_		
Buildings.				
Casino	790	92		
Bath-house	398	-		
Skating pavilion	298	-		
Casino ice box	304			
Boat-house		93		
Barn	297	-		
Green-house.	223			
Inselruhe	22	-		
Ice-house	8o			
Picnic pavilions	189	-		
Horse shelter	-	63		
Buildings, general	463			
Furniture	398	-	3,478	10
Turniture	350		3147	
Roads and Walks.				
Road maintenance	2,825	35		
Walks, maintenance	198	-		
Hitching bays	143	88	3,167	64
•				
Docks and Bridges.				
Docks, care of and repair	221	38		
Bridges, repair	603	28	824	66
		_		
Water System.				
Repairs	307			
Ice and water to tanks and fountains	543	82		
Repairs to tanks	16	45		
Ice cuttings	589	74		
Lily pond	53	50	1,510	66
		-		

Lakes and Canals.				
Canals	\$333 9	8		
Lily pond	27	7		
Skating Lake	653 3	I		
Beaches	6 7	5 \$1,021 -	11	
Zoological Department.				
Care of	1,017 6	io		
Feed				
Cages, repair	-		83	
Closets and Cesspools.		_		
Care of	946 4	9		
Repairs	165 7	' 4		
Supplies	56 3	9 1,170	62	
Phaeton Service.				
Maintenance		5, 195	48	
Bath-House Service.				
Maintenance	1,681 7	' 4		
Suits and supplies	408 4	5 2,090	19	
Patrolmen.				
Wages		411	00	
Rustic Stands.				
Repairs		168	90	
Total Belle Isle maintenance,			_	\$35,350 87

BELLE ISLE IMPROVEMENTS.

Roads, construction of and resurfacing,	3,590	60
Belle Isle bridge approach	766	71
New ice-house	2,183	22
Telephone line (private)	424	91
Bridge, No. 2	707	50

Bridge, No. 7	\$ 683	00
" " IO	2,962	52
" " 12	2,777	79
" " 14	1,072	55
Dredging inlets to lakes and canals	1,179	95
Takoma lake deepened	7,019	43
Riprapping	644	94
Landscaping at shelter pavilion	344	17
Ferry dock	466	64
Slag	313	26
Boat-house bridge	250	00
New phaeton	545	00
" harnesses	800	∞
Purchase of animals for Zoo	1,361	86
Animal cages and fences	1,622	25
Lagoon	319	96
" fence	533	05
Sprinkling system	\$ 848	29
Shut-off gates	160	19
Drinking fountains	621	96
Settees and swings	173	98
Bath-house changes	548	00
Lauudry machinery	494	00
Trees and shrubs	306	45
Steam road roller	1,750	00
Barn, painting	249	09
Boat-house, painting	268	21
Pavilions	281	82
Casino toilet	25	
Horse shelter toilet	45	80
Shelter pavilion toilet	•	90
General improvements	49	24 —

Total Belle Isle improvements,

\$36,433 24

BOULEVARD MAINTENANCE.

Roadways and intersections	\$1,797	90
Caretakers	2,758	76
Patrolmen	1,462	00
Center and side lawns	1.700	72

General maintenance	\$515	07	
Trees and shrubs	904	23	
Floral	1	50	
Water system	197	67	
Walks	54	02	
Viaduct	3	19	
Road sprinkling	1,635	88	
Total boulevard maintenance,			\$11,120 95

BOULEVARD IMPROVEMENTS.

Shut-off gates	\$ 85	13
Lawns	548	56
Walk construction	312	94
Walk intersections	804	46
Tool-houses	94	64
Trees and shrubs, planting	492	47
Viaduct planking	417	55
Fairmount park, drainage	83	86
Roadway intersection	596	51
Cutting back center lawns	104	82
Widening roadways	210	00
Road, Russell st. to viaduct	1,111	09
Viaduct, east and west approach	349	72

Total boulevard improvements, 5,211 75

PALMER PARK MAINTENANCE.

01	4	
General maintenance	\$2,711	29
Roadways	187	61
Walks	54	76
Closets	26	46
Water tanks	2	44
Lawns	403	98
Fountans	30	57
Bridges	6	00
Swings	7	10

Flags and staff	\$28	18
Trees and shrubs	25	51
Floral	35	36
Forage	39	00
Ice-house	4	50
Cutting ice	61	50
Buildings, general	239	31
Fuel	338	•
Water rates	800	•

Total Palmer park maintenance,

\$5,001 86

PALMER PARK IMPROVEMENTS.

Water main	\$2,564 27
Conduit	443 60
Arboretum	
General improvement	323 81
	248 04
Lawns	38 37
Roads	858 41
Wagon shed	205 84
Tool house	214 89
Poultry house	462 86
Scales	84 92
Rustic work	12 00
Walks	219 60
Trees and shrubs	114 50
Settees	180 00
Sewer	371 50
Coal pit	9 00
Log cabin	4 65
Lodge	76 28
Log waiting room	1,212 07
Parkway lawns	187 44
Parkway roads	
	2,104 26
Parkway planting	236 09

Total Palmer park improvements,

10,172 40



CLARK PARK MAINTENANCE.

General maintenance	\$1,716	96	
Floral	5	25	
Buildings	75	56	
Water		51	
Ice	74	34	
Trees and shrubs	14	76	
Total Clark park maintenance,			\$ 1,926 3 8

CLARK PARK IMPROVEMENTS.

General	\$926 41
Toilet	22 87
Water system	1,519 20
Settees and swings	424 08
Trees and shrubs	1,175 08
Band stand	4 50
Lake	109 33

Total Clark park improvements,

4,181 47

CITY PARKS MAINTENANCE.

Owen.				
General			\$27	92
Perrien.				
General.	55	77		
Water system	17	50		
Trees and shrubs	7	86	8 1	13
Grand Circus.				
General	220	82		
Floral	94	57		
Water system	118	o6	433	45
Cass.				
General	122	73		
Floral	38	74		
Water system	18	8 o		
Trees and shrubs	3	00	183	27

Stanton.		
General	\$ 1 50	
Floral	4 38	
Water system	7 69	\$ 13 57
Macomb.		
Trees		3 00
Harmonie.		
General	7 88	
Floral	2 64	10 52
Campau.		
General	14 11	
Water system	20 23	34 34
Cadillac.		
General	145 33	
Floral	3 19	148 52
West.		
General	24 25	
Floral	1 6 0	
Water system	21 51	
Trees and shrubs	10 50	57 86
Clinton.		
General	21 05	
Floral,	11 39	
Water system	21 83	54 27
Capitol.		
General	24 81	
Floral	37 10	
Water system	4 88	
Trees and shrubs	2 19	68 98
Washington.		
General	163 33	
Floral	25 41	
Fountain	110 78	
Trees and shrubs	8 31	307 83

Recreation.				
General	5 80			
Trees and shrubs	8 oz	13	82	
Medbury.				
General		45	11	
City Hall Lawn.				
General	46 73	,		
Floral	204 92	251	65	
Elton.				
General		16	2 0	
Crawford.				
General		9	95	
Second Avenue Parkway.				
General		8	69	
Boston.				
General		19	28	
Opera House Lawn.				
General		2	94	
Soldiers' Monument,				
Floral		29	44	
City Parks General Maintenance.				
General	1,853 8	7		
Water system	193 3	6		
Floral	173 86	5		
Care-takers	4,120 1	6,341	24	
Total City parks maintenance,				8, 162 98

CITY PARKS IMPROVEMENTS.

Owen.		
General	731 10	
Trees and shrubs	133 50	864 60

Perrien.				
General	\$302	70		
Trees and shrubs	6	18	\$309	51
Grand Circus.				
General	139	83		
Walks	336	33		
Water system	131	91		
Trees and shrubs	4	80 	612	87
Cass.				
General			343	91
Stanton.				
Walks	323	03		
Lawns	168	17	491	20
Macomb.				
Trees and shrubs			10	53
Harmonie.				
Trees			10	50
Campau.				
General	16	04		
Trees and shrubs	12	25	28	29
Cadillac.				
Walks	11	8o		
Trees and shrubs	10	5 5	22	35
West.				
General			16	50
Clinton.				
General	20	11		
Trees	7	00	27	II
Capitol.				
General	33	68		
Trees and shrubs	6	3 2	40	00

Washington.			
Fountain	\$2,146 53		
General	79 98		
Walks	272 62		
Water system	110 02		
Trees	<u>78 07</u>	\$2,687	22
Recreation.			
General	27 18		
Trees and shrubs	ı 69	28	87
Medbury.			
General	27 16		
Trees and shrubs	54 62	81	79
City Hall Lawn.			
General	9 00		
Walk (cement)	152 41	161	41
Water (coment)		101	4.
Volgt.			
General	720 07		
Trees	60 00	78 0	07
Crawford.			
General	20 72		
Trees and shrubs	17 50	38	22
Second Avenue.			
General		203	11
Boston.			
General	55 ² 55		
Trees and shrubs	99 10	651	65
Opera House Lawn.			
General		20	22
Total city parks improvements,			

7,439 03

RECAPITULATION.

Park and Bou	levar	i Fund.		N	AINTENAN	CE. IM	PROVEME	NTS.
General mai	ntenai	ice and im	proveme	nts	\$46,438	06	\$ 18,768	38
Belle Isle,	"	"	"		35,350	87	36,433	24
Boulevard,	"	"	4.6	•••••	11,120	95	5,211	75
Palmer,	"		66		5,001	86	10,172	40
Clark,	"	"	64		1,926	38	4, 181	47
City parks,		"		••••	8,162	98	7,439	оз
					\$ 108,∞1	10	82,206	27
]	Maintenan	ce	•• ••••			108,001	10
		Tota	al expend	liture,			\$190,207	37
Park and Bo	ulevar	d Fund, b	alance Ju	ly 1, 19	900		4,682	63
** **	44				••••		194,702	•
							199,385	24
			Ex	penditu	res	••••••	190,207	37
		Cash bala	ance, Jur	ie 30, 1	901		 \$ 9,177	87
Park Improve	ment	Fund.						
Balance, Jul	y 1, 19	00			••••	•••••	\$149,567	15
Expenditure							1,439	
		Cash bala	ance, Jur	ie 30, 19	901	•••••	\$148,127	93
Park and Boul	levard	Fund.						
	Bala	nce July 1,	1901, Dist	ributed	as Follows	:		
Administrati	ion, fo	r lineolium	ı, etc		••••	•••••	\$ 163	87
Engineering							198	00
New green-h	iouses,	balance o	n contrac	t and o	ther worl	ζ	1,445	ထ
Belle Isle ma	aintena	ance, for n	ew platfo	rm ska	ting pavil	ion	250	00
Bridge No. 1					• • • • • • • • • • • • • • • • • • • •		800	00
=	10, ''	"			her work		4,000	00
Palmer park							1,046	00
Grand Circu	•	•	•				275	00
Washington	parkw	ay, for for	ıntain, et	.c	• • • • • • • • • • • • • • • • • • • •		1,000	00
			Tota	al	· • • • • • • • • • • • • • • • • • • •		\$9,177	87



PARK AND BOULEVARD SYSTEM.—(Expenditures.)

Compuzer From Cirry Records.
General Maintenance includes administration, tools, nursery, greenhouse, barns, horses and vehicles and general improvements.

42.40	Total.	2. 1	
ALS.	IMPROVE- MENTS.	28, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	
TOTALS	MAIN- TENANCE.	88. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
	BOULEVARD Right of Way.	\$3,792.14 of the \$4 600.00 in 1899 was paid from city contingent fund. \$3,792.14 of the \$4 600.00 in 1899 was paid from city \$3,792.14 of the \$4 600.00 in 1899 was paid from city	
si.	BOULE- VARD.	2	
MPROVEMENT	SMALL PARKS.	Improvements from 1854 to 1889 are included under head of Maintenance. 2888年1288年288年288年288年288年288年288年288年28	
IMPRO	CLARK PARK.	First item is for purchase of the Park and was paid from the general city fund.	
	PALMER PARK.	20 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	BELLE ISLE.	First item is for purchase of the Park. 600 600 600 600 600 600 600 6	
	BOULE- VARD	78. 78. 76.7.5. 76.7.5. 76.7.5. 76.7.5. 76.7.5. 76.7.5. 76.7	
.,	SMALL PARKS.	### 1	
NANCE.	CLARK PARE.	Included in Maint, of Small Parks from 1890 to 1899.	
MAINTE	PALMER PARK.	83.83 13 1.08 13 13 13 13 13 13 13 13 13 13 13 13 13	
-	BELLE ISLE.	## 12	
	GENERAL. inc. Gen'l Imp.	On account of change in fiscal year the item in 1878 is for 17 months and in 1896 it is for 18 months.	
	Year.	28 28 28 28 28 28 28 28 28 28 28 28 28 2	1

Park and Boulevard System.

Bonds Issued and Estimates Asked and Allowed.

Total	bonds	issued	for	Belle Isle Park	\$915,000	00
"	"	"	"	Grand Boulevard	730,000	00
				Total	\$1,645,000	00

Estimates Under Act of May 8, 1889.

Year.	ASKED.	ALLOWED.
1889	\$231,000 00	
1890	181,000 00	72,400 00
1891	131,500 00	74,550 00
1892	· 133,650 00	100,000 00
1893	206,430 00	100,000 00
1894	359,954 ∞	168,200 00
1895	179,500 00	147,250 00
1896	169,250 00	137,150 00
1897	207,850 00	134,640 00
1898	164,760 00	113,640 00
1899	210,926 00	140,117 00
1990	428,661 00	173,502 00
1901	454,893 00	. 161,265 00
- \$3	\$,059,374 00	1,623,943 00

Miscellaneous Information to Answer the Many Inquiries Made.

"				miles l	· ·
			nas	5 ½ mii	es shore drive.
4.6	" "	"	has 1	4 🗸 mi	les of driveway.
"	"	"	has 5	5,1 ₀ mil	es gravel walks.
4.6	" "	" "	flag s	staff is	146,8 feet in height.
Park	and	Boul	levard	systen	n has 15½ miles of gravel walk.
4.6	"		"	"	has 3810 miles of roadway.

AREA OF LAKES.

Lake.	Takoma,	Belle	Isle	Park,	15.30	acres
"	Muskoda	y, ''	• •	"	34.23	
	Okonoka,	"			22.56	
• •	Higinio, Frances,	1 -	1	D1-	0	
	Frances,	∫ Pa	ımer	Park,	4.58	•••
Clark	Park Lak	e	•••••		66	**
Voigt	Park Lak	e	· • • • • • •		37	• •

PRINCIPAL IMPROVEMENTS.

Lakes.				•				
Lake					1887			
"	"	"	4.4	"	deepened, 1892	5.444 55		
"	**	• •		4.4	" 1900	7,019 43	\$ 34-445	73
Lake	Okonoka,	Belle	Isle	Park	, 1888 9		5 8,658	73
					1893		45,055	99
Lily	Pond,	"		* *	1890		2 ,990	15
Canals.								
Loop	Canal, Be	lle Is	le Pa	r k , 18	883		11,182	30
Nasl	iua '' '			, 18	390		37,741	97

Water Mains.	
Water mains, Belle Isle Park, 1894-5-6	\$29,623 52
Docks.	
Sheltered ferry dock, Belle Isle Park, 1894	12,520 65
Bridges.	
Stone Bridge No. 1-Over North Inlet to Loop	
Canal, on Pleasure Place, Belle Isle, 1894 Steel Bridge No. 2—Over Loop Canal, near Muir	5,438 25
Fountain, Belle Isle, 1892 Stone Bridge No. 3—Over Marsh Run, on Muse	5.962 53
Road, Belle Isle, 1894	8,205 80
Stone Bridge No. 5—(Foot); over Marsh Run, Belle Isle, 1894	1,400 00
Steel Bridge No. 6—Over Loop Canal, on Central avenue, Belle Isle, 1892 Stone Bridge No. 7—Over Loop Canal, South of	14,301 43
Bridge No. 6, Belle Isle, 1892-3	5,852 72
of Belle Isle, 1894 Stone Bridge No. 9—(Foot); over outlet to Lake	5,462 34
Takoma, Belle Isle, 1894-9 Stone Bridge No. 10 - Over Canal at head of	1,732 61
Takoma Lake, built in 1900-1901 Stone Bridge No. 12—Over South Inlet to Nashua	2,962 52
Canal, built in 1900-1901	2,777 79
Steel Bridge No. 14—Over Nashua Canal, at Shel- ter Pavilion, Belle Isle, 1899-1900	4,538 35

Stone Bridge No. 19 - Over South Inlet to Lake Muskoday, Belle Isle, 1894

Stone Bridge No. 20—Over North Inlet to Lake Muskoday, Belle Isle, 1894.....

Stone Bridge No. 21—Over outlet to Lake Muskoday, 1894.....

Wooden Bridges Nos. 4, 11, 13, 15, 16, 17, 18 and 22 were built many years and are now worth-

Stone Bridge in Clark Park, 1893.....

Subway, Milan Arch, Boulevard, 1895-9



4,578 47

3,999 62

3,559 77

609 60

44.786 61

Buildings.

Casino, Belle Isle, 1886-7-8.	\$19,066 45
Boat House, Belle Isle, 1887	5,587 28
Engine House, Pavilion and Earth Closets, Belle	
Isle, 1887	5,966 84
Green House, Belle Isle, 1899–1900	11,459 52
Music Pavilion, Belle Isle, 1890-1	2,545 30
Bath House, Belle Isle, 1894	16,179 88
Horse Shelter (old market bldg.), Belle Isle, 1894	3,110 06
Skating Pavilion, Belle Isle, 1893-4	8,415 40
Brick Barn, Belle Isle, 1895	12,053 21
Women's Toilet (brick) Belle Isle, 1895	1,085 49
" " (stone), " " 1896	2,208 56
Picnic Pavilion, near Yacht Club, Belle Isle, 1890	1,635 72
Shelter Pavilion, Belle Isle, 1899	12,828 72
Police Station (Park Board's Share) Belle Isle,	
1892	2,000 00
Women's Toilet, Clark Park, 1893	4,205 59
Men's " " 1899-1900	2,295 00
Shelter Pavilion, " 1895	1,672 00
Picuic Pavilion, Palmer Park, 1895	1,167 53
Casino, Palmer Park, 1896 99	11,799 73
Log Waiting Room, Palmer Park, 1900	1,212 07
Miscellaneous.	
Bear Den, Belle Isle, 1895-6	3,272 40
Animal Cages, Belle Isle, 1896-9	5,824 28
Speeding Track, " " 1890-1	3,015 85
Fountain, Capitol Park, 1896	2,351 83
" Stanton Park, 1896	670 00
** ** ** ** * * * * * * * * * * * * *	

Horse Drinking Troughs, Boulevard, 1896

1,606 38

Park and Boulevard System.

Names. Locations.	ACREAGE.				
Belle Isle—Island in Detroit River (Survey 1899)					
Boston Park Way—Boston Boulevard					
Chicago Park Way-Chicago Boulevard					
Cadillac-Cadillac sq., Campus Martius to Randolph					
Campau—Campau, Mullett and Clinton Sts					
Capitol-Griswold, State and Roland Sts					
Cass—Cass Ave., Ledyard and Bagg Sts					
City Hall-Woodward Ave., Fort and Michigan	.550				
Clark - Dix, Scotten, Howard and Clark Sts	24.731				
Clinton-St. Antoine, Mullett and Raynor Sts					
Crawford—Fifth and W. High Sts	.746				
Elton—Fifth and Orchard Sts	.740				
Grand Circus-Woodward, Adams, Park and Witherell	5.566				
Harmonie—Randolph, Center and North Sts	.448				
Macomb-17th, 18th and Rose Sts	-557				
Medbury-Medbury Ave., John R. to Rivard Sts	3.440				
Opera House-Woodward and Monroe Aves	.174				
Owen-Jefferson Ave. and River	3.900				
Palmer—Woodward Avenue	140.410				
Perrien-Chene, Grandy, Hancock and Warren Aves	5.180				
Recreation—Brush, Brady to Alexandrine Ave					
Second Ave. Park Way-Second Ave	1.110				
Shakespeare Park Way-Shakespeare Esplanade	1.640				
Schiller Park Way-Schiller Esplanade	1 640				
Stanton-17th, 18th and Porter Sts	.695				
Voigt-Schiller and Shakespeare Esplanades	9.601				
West-State and Park Place					
Washington-Washington, Michigan to Park St					
Boulevard	212.837				
Total (28 Parks and The Boulevard)	1,139.454				
Boulevard mileage	11.29				



BOARD OF HEALTH BUILDING, DETROIT, MICH.

REPORT OF THE HEALTH OFFICER.

To the Honorable The Board of Health.

GENTLEMEN:-

At the close of my year as Health Officer of the City of Detroit, and after a glance at the work accomplished during that time, I feel that we have reason to congratulate ourselves upon the amount of work completed, and the efficient manner in which it has been carried forward.

One year is a short time in which to carry to completion important work upon public health lines, as years of work and study are necessary to ascertain the best methods of preserving the public health and successfully applying them.

The sanitary condition of the city has never been better than at the present time; all nuisances complained of having received prompt attention and investigation and the necessary steps taken to remove the causes thereof.

The number of deaths resulting from the various contagious diseases (Diphtheria, Scarlet Fever and Smallpox), reported at this office have been very few; for example, from an outbreak of smallpox during which one hundred and ten cases were reported to, and cared for from, this office, one hundred and nine recovered. The death occurring from a case reported within a few hours of the death of the patient, and when past relief from medical science. This certainly is a remarkable record.

To-day, Gentlemen, after having over one thousand cases

of contagious disease during the past year, my term as Health Officer closes, with no diphtheria cases, only seventeen scarlet fever cases, and one case of smallpox, which is nearly recovered.

The Health Officer has from time to time in his reports recommended many things for the betterment of the health and sanitary conditions of the city, such as a well equipped city hospital for the care of the various contagious diseases, a general vaccination, public bath houses, inspection of schools and many others which could not be accomplished for lack of money; the Board of Health Fund being much too small for these purposes and other necessary work.

The report of the work of this Department in detail will be found in the various reports following.

In a word the success of the year's work has been made possible by the assistance and cordial support of your honorable body, the hearty co-operation of the entire medical profession and the staff of the Board of Health.

I have the honor to remain.

Yours very truly,

W. R. BAKER, M. D.

Health Officer.

Detroit, Michigan, July 1st, 1901.

REPORT OF THE REGISTRAR OF VITAL STATISTICS.

GUY L, KIEFER, M. D., Health Officer.

DEAR SIR—I respectfully submit the following as the report for the contagious disease and vital statistics departments for the year ending June 80th, 1901.

SUMMARY OF MORTALITY.

AGE	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Under 1 year	180	128	96	75	116	52	165	88	49	50	45	134	1,093
1 to 4 years	29	45	43	32	44	49	29	34	58	44	30	24	461
5 to 9 years	10	6	5	9	5	13	18	17	14	12	11	9	129
10 to 19 years	23	23	19	13	20	23	21	21	14	22	18	14	231
20 to 29 years	39	26	26	36	26	28	22	40	38	37	33	20	371
30 to 39 years	37	44	20	28	26	27	26	41	43	37	39	30	398
40 to 49 years	31	27	20	26	19	34	32	22	33	27	39	26	336
50 to 59 years	2 6	41	33	32	33	32	28	29	41	54	30	28	407
60 to 69 years	40	29	32	37	31	40	37	36	42	54	30	28	451
70 to 79 years	31	30	17	27	36	34	38	35	62	36	39	23	424
80 years and over	15	11	20	20	11	20	16	14	19	27	23	16	212
Still born	35	29	27	24	30	33	25	37	34	28	31	32	365
		-	-		-	_	_		_		_		
Total	496	439	358	357	343	385	459	414	447	428	368	384	4,878

SUMMARY OF MORTALITY-Continued.

NATIVITIES.

							Ī						
PLACE OF BIRTH	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Detroit	255	206	172	147	144	165	218	140	202	182	160	175	2,166
Michigan	52	63	21	38	37	40	43	58	30	35	28	38	483
Other States	35	51	47	50	52	45	55	44	45	54	48	32	558
Austria	3	1		1	2	1	ļ		2			1	11
Australia				1	 .			ļ <i>.</i>			 .		1
Bohemia	3	ļ	1	1	3		4	 	2	1	2	3	20
Belgium	3	1	1		ļ	3	2	 		1			11
Bavaria	2	1	1			ļ	1		ļ				5
Canada	33	19	24	21	22	30	28	34	32	28	30	25	326
Denmark		2		1						1			4
England	13	14	13	7	8	14	17	15	9	10	8	8	136
France	2		1			4	2		2	3	1	2	17
Germany	46	47	50	56	46	50	55	65	74	69	47	59	664
Greece							. 						
Holland						1				1	••••	1	3
Hungary		.						1		1			2
Ireland	32	25	18	17	20	17	21	24	30	25	23	18	271
Italy	2	1					1	1		1	1	1	8
Poland		 	 .	2		5	1	4	4	4	3	2	25
Prussia		 	 		. .	 		1	2	1	2		6
Russia	1	1	1	1	2	3	2	2	2	2		3	20
Scotland	3	2	4	4	3	3	4	2	8	8	8	7	56
Spain	2	1	1			.					 .		4
Sweden	 .	1		1			1		2		1		6
Switzerland	1					2		2	1	1		2	9
Not Stated	8	2	3	9	4	2	4	6	12	1	6	6	63
Total	496	439	358	357	343	385	459	414	447	428	368	384	4,878

REPORT OF THE BOARD OF HEALTH

SUMMARY OF MORTALITY—Continued.

CAUSES OF DBATH.

CAUSE OF DEATH	July. 1900	Angust	September	October	November	December	January, 1901	February	March	April	May	June	Tota1
Abscess		1		••					1		2		4
" pelvis						2	 						2
" liver	••		1			1		1			1	1	5
" brain					1								1
" lung								1					1
" uterus			1										1
" abdominal				1			١		 	1	 -		2
" chest							1						1
Accidental, killed by cars	3	5	3	5		4	2	2	2	6	3	5	40
" drowning	4	3	8		1	1	1			3.		3	25
" poison	3	 .		2			3	2		2		1	13
" gun shot		3		1	1	1	1	1		1	1	1	11
fall	1	2		1	3	3	3		1	1	ļ	2	17
" burned	8	3		1	2	1		1	1		1	1	19
" scalding		1		1	1		1				2		6
" electric shock			1		ļ	1		. .	1			1	4
" bicycle		 		1	 					 .			1
" crushed	1		3		1	ļ	ļ	2		1		1	9
"asphyxia	1			i	 	! 		1					2
" frozen			 .		i	1		2					3
Alcoholism	3	3		 	1	1	3	1	2	2		2	18
Anaemia	2	2	3		' • • • •	2			1		2	1	13
" pernicious	1	2	1	1	١	ļ	1	1	1	2		2	12
Appendicitis	1	5	3	1	4	6	3	3	3	2	3	1	35
Apoplexy	13	15	3	10	10	11	15	11	13	13	11	12	137
Asthma	3	2	2		3	6	ļ	 .	4		5	2	27
Апавагса				·		1			1		ļ		2
Atrophy, liver		 	1	' 	ļ	 ••••	1				1		3
" muscular			1				ļ	1	 				2
Angina Pectoris		1	1	2		1	3	2	l	1	4	1	16

	1	1							,		1		
CAUSE OF DEATH	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Asphyxia	2		2	1	1		1	1	2	2	3	1	16
Atelectasis	1	1	1	. 	1		1	1	1		1		8
Aneurism		1			ļ	1	 .	 					2
Atheroma			1		 			٠					1
Aortic Regurgitation	1	 					 			 			1
Albuminuria	1	 			1	1				1	.		4
Arterio Sclerosis		1	1			 	1		1		.	1	5
Aneurism Aorta	ļ		ļ	1			ļ	1	l	1	ļ		3
Aortic Stenosis	1	l			1				ļ				2
A bortion	ļ	· · · ·			1			1		1			3
Acetonuria		! .••••			 				ļ. .		1		1
Abnormal Labor		İ	1				1			١			2
Arteries, calcerous degeneration	 					1			 				1
Adenitis Cervical	 	ļ. .		1							 .		1
Biliary Calculi	 	1									l		1
Brights Disease	4	2	2	3		1	3	2	2	7	3	3	34
Bronchitis	9	4	7	8	7	8	10	5	8	16	8	1	92
" chronic	3	1	1	3	5	2	4		2	8	1	1	31
" capilary	1		11	3	2	6	9	10	13	6	9	1	71
Breech Presentation	1	1				2	2		 ••••	2	1		9
Brain. organic disease	ļ				1								1
" congestion of	1	2	4	1	1	3	4	1	2	1	2	1	23
" softening of	1	1				2	1	1	1			1	8
Carcinoma	2	, 3	2	3	1	1	2	2		1	3		20
" stomach	7	6	6	4	3	6	3	5	2	5	. 8	2	57
" intestines	۱	1	1	 .	1		1	1		3	2	1	11
		••••		1			l						1
" face						1							
" face	2	1	1	1		2	2		1	1	2		13
1ace	2	1 2	1	1		6	2		1 3	1	2	3	13 28
breast		_		-	 		1	1	_	_	1		
breast		_		-	1	6	1	1	_	· · ·	1		28

CAUSE OF DEATH	July, 1900	August	September	October	November	December	January, 1901	February	March	A pril	Мау	June	Total
Carcinoma, rectum		2		1	3		1	1	1				9
" abdomen	1					1	1				1		4
" oesophagus			•••		 .		• • • • •			1			1
" neck	1		 -		2			1	2		1		7
" vagina				1			• • • •			 			1
" groin	 		1				1						2
" pancreas				 				1	 	2			3
Cholera Infantum	70	37	27	4	3		1	3	2	1		10	158
" Morbus	4	ļ	1						 				5
Cirrhosis of Liver	2	5	3	1	3	2	1	4	7	3		3	34
Croup		2	ļ	1		1	1			2	1		8
" spasmodic			1					1					2
Colitis Ileo	İ	1	3	1	2	1		1	2				11
Carbuncle		ļ	1			ļ	1	ļ		1			3
Cystitis	 	1	1	1	2		5	2		2	 	2	16
Convulsions	3	10	11	13	9	13	10	11	15	24	24	15	158
Catarrh	2	 .	2		1	2	3	4	2	1	2	3	22
Cyanosis	1	1	1	1			2		1	1	3		11
Chorea, chronic					1			 	ļ	1			2
Cord, knot in			1										1
" strangulation of	. .		 		1			. .	 .	1			2
Chlorosis						1							1
Debility, general		2	1		2	2			1	2		1	n
" senile	14	16	13	23	22	17	17	16	15	16	18	12	199
Diphtheria	1	3	5	10	3	11	7	5	3	4	 		52,
Dysentery	12	9	5	1	2	3	1	3	3		5	6	42
Diabetes	2	3	2	1	2	4		1	 	2	3	ι	21
Dementia		2	4	2	4	1	1		3	3	2	2	24
Dropsy	3	3	2	2	3	3		1	1	3	1	3	25
Dyspepsia	2	 .		4	1	3	2	2	1	1	2	1	19
Dentition		1			1					1	1		4

REPORT OF THE BOARD OF HEALTH SUMMARY OF MORTALITY—Continued.

CAUSE OF DEATH	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Entero Colitis	8	11	11	1	2	2		1	1	1	2		40
Enteritis	11	5	6	4	7	5	1	1	2	4	7	14	67
Endocarditis		2	4		3	2	4	2	5	3	2	2	29
Erysipelas			1	j	2	1	3	2	3	7	3		22
Epilepsy	1	1	1	2	5	1		3	1	2	1	2	20
Етрһуѕета	1		2	1	1			1	2		2	3	13
Epithelioma							1		 				1
Exhaustion, during labor		1					 	 .	• • • • •		1		2
Fracture, femur			1	. .				1	ļ	2		1	5
44 skull	ļ	2	1	2	1	2	3	1	1		2	1	16
" hips	1			 .			 .	ļ	••••	1	. .		2
" leg	ļ		1				 .	1	 .		٠.		2
Gastro Enteritis	1		2	7		2	3	1	1	6	1	5	29
Gangrene	1		ļ	. .	1		1	1					4
" lungs		1											1
" intestines			<i>:</i>	 .			ļ		ļ			1	1
Gastritis	2	3	5	7	2	5	1		3	9	5	4	46
" acute	. 1		ļ	1	 		.	. .	1				3
Gall Stones		1	 	. .		1	. .	 .					2
Goitre, exopthalmic	 	1	1			1			1		1		5
Glottis, oedema of		ļ	ļ	1			 .	ļ					1
Hodgkins Disease		ļ	 			1	. .	 		 			1
Heart Disease	15	7	9	11	13	14	11	9	14	13	11	4	131
" fatty degeneration of	6	2	1	1	2		3	1	 .	1	2	2	21
" valvular disease of	7	3	5	3	3	2	9	3	8	8	8	4	63
" dilatation of	3	1	ļ	1	3		4	1	1	1		1	16
" congenital malformation of	f		1							1			2
Hæmorrhage		2	l	1	 .		2	ļ	ļ				5
bowels	1	 	· · · · ·	 	i	 ••••	 		· 	1			3
" lungs		3	1	1	. .	1	 	2		2	1		11
" uterine	2		ļ. .	1	1	1	l		1		1		7

CAUSE OF DEATH	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Hæmorrhage, stomach				1		1				1			3
Hepatitis	1		1		1	2	3	ļ	2	1			11
Hemiphlegia	1	1			2	2			1			····.¦	7
Hydrocephalus			2		ļ	1	1			1		1	6
Hysteria				1				1		•••	•••		2
Hernia		1	····	2			2		1	1			7
" umbilical				•••	1				· • •		•••		1
Hip Joint Disease	ļ					1				. .			1
Heart Clot, aute mortem	 -	1								2			3
Hypheremesis			1				1	 					2
Influenza		1				1	3	5	4	2	1		17
Intestinal Obstruction	ļ	2		3		3		1	4	6		1	20
Insolation			1		2		 -		••••				3
Intussusception	1						1						2
Impetigo Contagiosa			1		1	,				1			3
Jaundice		1	3	1	2	2		2	1		2		14
Kidney, Infraction of				· • • •			1						1
Laryngitis		2			2	····			1		1		6
Locomotar Ataxia	1				ļ	1			1				3
Lencocythaemia	. .		1					. 					1
Leukaemia				1	1	1			1	. .	1		5
Lymphadentis							1					 	1
Liver, Sclerosis of	2	İ		1				2		1			7
Lungs, Congestion of	2			1	1	1		3		2	2	2	14
Marasmus	36	29	21	20	19	15	13	19	16	12	15	52	237
Meningitis	13	2	3	5	3	3	4	3	5	3	4	4	50
" celrebro spinal	3	i	3	, 	3	1	4	3	11	4	6	2	40
" tubercular	1	3	1	1		! !	2	6	3	1	2		20
" cerebral	2			3	5	2	3	1	1		l	1	18
Malnutrition	2	1	1	2	 	4		1	1				12
Measles		1	ļ	2	10	12	2	5	5		1	2	49

REPORT OF THE BOARD OF HEALTH

CAUSE OF DEATH	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Murder		1									1	1	3
Malarial Fever	1	1	1	1	1	1	1		2	1	1		11
Myocarditis			1	1	1					2	1	1	7
Mitral Insufficiency	1	2	3	2	3	4	5	4	6	3	5	4	42
Metritis		1		1	1	 		ļ			1		4
Monstrosity	1			1	1	 	2	 		1			6
Nephritis	13	8	11	7	8	12	7	8	11	8	5	9	107
" interstitial	1	1		 .	4	ļ	1	1	2	.	1		11
Non closure Foramen Ovale		1	2		2	2	2	1				1	11
Neurasthenia				1						1	 .		2
Neuritis, acute multiple	1	ļ			1	1					1		4
Myelitis Osteo		1			١						. <i>.</i>		1
Ovariotomy			1										1
Operation, Shock	1	ļ	2	ļ. <i></i>		1	1	1		1	1		8
Phthisis Pulmonalis	21	13	8	10	12	14	9	15	14	16	20	11	160
Pulmonary Tuberculosis	10	12	12	10	16	13	18	14	17	16	24	8	170
Pneumonia	12	8	23	16	36	38	36	47	36	67	35	12	364
" broncho	1	6	2	5	3	5	15	14	18	13	15	4	101
Peritonitis	3	5	5	11	1	5	7	5	10	11	7	6	76
Paralysis	3	6	11	4	7	10	9	8	7	11	7	4	87
Pleurisy		1	1	ļ	2		١	2		3			9
Puerperal Fever	1	, 2	2		2	4	1	5	2	1	1	1	22
Premature Birth	7	3	6	3	2	4	5	1	4	7	4	4	49
Pericarditis	1	ļ		2	·	 .	ļ	1	ļ. .	1			5
Paresis	1	1	, 1	ļ		ļ	2		4	 	2	3	14
Parturition		1	ļ	2		ļ	1	1	ļ	3	1		9
Pancreas, Disease of					·	ļ	,		1	 			1
Poliomyelitis, Acute	ļ			ļ	 	 				1			1
Pyo-salpinx		1		ļ	1	 			ļ		 		2
Prolapse of Funis	l	l			ļ <i>.</i> .	1		1	l	l		l	1

CAUSE OF DEATH	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Phlibitis					1					1			2
Pleuritis Septic		1	ļ						 	 .			1
Progressive Muscular Atrophy			• • • •							ļ	. .	1	1
Poison, dog bite		<u>ا</u>	 			••			1				1
" drugs before birth	. .	1	' 									اا	1
Placenta, Degeneration of		• . • .	1						ļ		ļ	ا ا	1
Prostate, enlarged	1	• • •				2		1				1	5
M Disease of			i ,••••									1	. 1
Pelvic Cellulitis				1		. .					ļ	1	2
Perforation Bowel			·	1		· · ·							1
Rheumatism	1	1	i	1	3	3	1	2	4	2	6	1	25
Renal Colic			1			ļ .	1			1			3
" Calculai								1				 	1
Rupture Stomach		1	١		ļ				1	ļ			2
Sarcoma			1					 		1		·····	2
" pelvis			ļ		ļ			1	ļ	 .	. .		1
" intestine		1			ļ					ļ			1
" gluteal		ļ		1					 		 .		1
Still Born	35	29	27	24	30	33	25	37	34	28	31	32	36 5
Scarlet Fever	1		3	1	1	1	2	1	2	1	2		15
Septicæmia	1	3	2	2	3	5	3	7	3	4	3	1	37
Suicide, poison	1	3	1	2	2				1	1	2		13
" hanging	1		1	1	1				2		2		8
" pisto1		2			·	1		3		1	1	1	9
" cutting of artery					1	 				 	ļ		1
44 kuife			1		,	l				1			2
Syphilis	2	8	7	4	3	1	4	2	2	4	6	1	44
Stomatitis			1	ļ	١	١	1					·	2
Syncope	1	 	ļ		, 	ļ				1	1		3
Small Pox	 				ļ		. .		 			1	1

CAUSE OF DEATH	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Salpingitis					1				1	 			2
Stenosis	. .	1	 .						ļ	1	ļ		2
Spina Bifida	ļ		1		2	 		1	1	 	 		5
Scurvy, Infantile			ļ	1									1
Typhoid Fever	2	4	3	9	3	2	4	3	6	2	4	5	47
Tetanus		1			1	 		2		ļ	1		5
Tumor			2			1	2			1	1		7
" ovaries								1					1
" fibro cystic	1	ļ	ļ. .	1	 						 		2
" fibroid		1											1
" brain	1				2					٠.			3
Tonsilitis		1							2	1			4
Tubercular Peritonitis			ļ	1			1	1					3
Thrombus, Cerebral		1			 							1	2
Tabes Mesenterica	1				1				 .		1		3
Uræmia	2	1	3	1		3		5		2	8	2	27
Ulcer, stomach	2	1	ļ. .					1		1			5
" bowels	٠		1	1	1	1							4
Urine Suppression							1					١	1
Unknown	3	1	1	1	2		1	5	1	2			17
Varicella		1		 .									1
Varicosa Ulcer	. .				1		. .						1
Whooping Cough	1	3	2	1			1	1		1			10
Yellow Fever		٠.					1		. .				1
Total					<u> </u>								4,878

SUMMARY OF MORTALITY-Continued.

Table showing computation for the death rate of the city.

MONTHS.	Total.	Still Born	Died Outside of City.	Net
July, 1900	496	35	44	417
August	439	29	33	377
September	358	27	19	312
October	357	24	28	305
November	343	30	15	298
December	385	33	35	317
January, 1901	459	25	24	410
February	414	37	18	359
March	447	34	23	390
April	428	28	22	378
May	368	31	28	309
June	384	32	14	338
Total	4,878	365	303	
Still born and died ontside	668			
Total death in city	4,210			4,210

Death rate per 1,000 per annum, 13.47, on a basis of an estimated population of 805,000 inhabitants.

BIRTHS REPORTED

For the year ending June 80th, 1901.

MONTH	Male	Female	Total
July, 1900	161	129	290
August	141	120	261
September	127	132	259
October	137	122	259
November	137	96	233
December	122	112	234
January, 1901	120	111	231
February	131	99	230
March	129	111	240
April	110	91	201
May	97	91	188
June	98	94	192
Total	1,510	1,308	2,808

CONTAGIOUS DISEASES.

Table showing cases reported by months in comparison with preceding years.

MONTH		DIPHT	HERIA	ا ا	s	CARLE	TFEVE	ER
MONTH	1898	1899	1900	1901	1898	1899	1900	1901
July	48	7	34	13	39	20	16	30
August	48	11	47	21	39	19	. 19	27
September	71	31	59	43	40	15	40	21
October	114	62	95	56	49	20	47	47
November	82	71	92	58	66	36	43	46
December	66	55	84	43	66	65	29	80
January	68	48	68	64	42	37	24	75
February	40	27	33	40	25	35	26	55
March	38	26	39	21	19	31	24	78
April	29	23	37	27	26	24	22	36
May	16	2,5	14	20	29	21	24	47
June	32	19	15	10	27	17	28	. 34
Total	652	405	617	421	467	340	342	576

CONTAGIOUS DISEASES.

Table showing deaths by months from contagious diseases.

DISEASE	July, 1900	August	September	October	November	December	January, 1901	February	March	April	May	June	Total
Diphtheria	1	3	5	10	3	11	7	5	3	4	 		52
Scarlet Fever 1	1		3	1	1	1	2	1	2	1	2		15
Small Pox	۱											1	1
Yellew Fever			•••				1	<i>.</i>					1

Table showing present condition of contagious diseases.

	oţ	DURI	NG THE Y	EAR) of	ses	
DISEASE	Total number cases June 30th, 1900	New cases reported	Recoveries	Deaths	Total number or cases June 30th, 1901	Number of Hou Quarantined June 30th, 1901	
Diphtheria	,3	421	369	52			
Scarlet Fever	27	576	561	15	24	23	
Small Pox	·····	110	107	1	2	1	
Yellow Fever		. 1		1			

REPORT OF FUNERAL INSPECTOR.

	FUNE	RALS ATT	ENDED.	DISINF	ECTIONS
MONTH	Diphtheria	Scarlet Fever	Typhoid Fever	Persons	Lots of Clothing
July, 1900	1	2	5	63	
August	3			56	6
September	7	2	10	67	7
October	10	1	6	130	
November	3	1	6	62	1
December	8	1	4	119	2
January, 1901	11	2	1	177	4
February	4	1	1	77	2
March	4	4	1	100	8
April	4	3	2	75	4
May	2	3	3	69	3
June	3	2	1	83	1
Total	60	22	40	1,078	38

Respectfully submitted,

C. S. VALENTINE,

Registrar.

Detroit, June 80th, 1901.

REPORT OF THE SANITARY ENGINEER.

DETROIT, July 1st, 1901.

Guy L. Kiefer, M. D., Health Officer:

DEAR SIR—I herewith submit a review of the work of the sanitary department for the year ending July 1st, giving in tabulated form items of interest.

The inspection and testing of plumbing and drainage work, to secure conformity to the rules and regulations of the Board, has been carried on during the year to the best of our ability with the means at hand to control it. A comparison of the total number of inspections with those of a year ago show a decrease, undoubtedly due to the lack of the department's ability to inflict a penalty for violations, as no penalty is provided in law for such offenses. As this fact became known, work has been concealed by not calling for inspection as required by the rules.

A bill to regulate the registration and licensing of plumbers, for the formulation of rules and regulations to govern their work and providing a penalty for violation of those rules and regulations, was passed by our last Legislature, and becomes operative in all cities in Michigan of over 15,000 inhabitants next fall.

This will remove the greatest obstacle we have had to the proper performance of our work in this line, and will enable us to make a better showing a year hence.

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INSPECTIONS OF PLUMBING AND DRAINAGE WORK.

1900	Plumbing	of Bldgs.	6		Smoke	_
1900	New	014	Sewers	Special	Tests	Tota
July	115	60	182	91	17	465
August	75	60	153	133	13	434
September	165	41	144	53	10	413
October	154	46	201	87	4	492
November	125	32	151	61	7	376
December	151	19	122	36	4	332
1901	ļ	-	ı			
anuary	103	15	74	29	10	231
February	81	9	34	21	3	148
March	90	23	109	28	5	255
April	162	26	220	23	5	436
May	139	30	165	71	4 !	409
June	158	23	141	79	7	408
Total		i				4,399
Last year					 .	5,131

SANITARY POLICE.

The following items represent work performed by the Sanitary Squad of Police for the Health Department: It is their duty to watch our streets and alleys, to investigate all nuisance complaints, and see that the City Ordinances and Health Regulations pertaining to sanitary matters are observed.

From the figures given it will be seen that the prevailing contagious disease the past year has been Scarlet Fever, while last year it was Diphtheria. Attention is called to this fact, as its effect upon the cost of supplies issued to families under quarantine is shown when a comparison is made with that of the year previous.

	***	1	HOUSES PI	ACARDED FO	R	u oc
1900	Complaints Investigated	Scarlet Fever	Diph- theria	Small	Yellow Fever	Circulars upon contagious diseases distributed
July	217	15	9			72
August	284	23	18			123
September	207	19	41			180
October	253	41	52			279
November	205	40	53			279
December	208	35	40	1		285
1901						
January.	96	64	54		1	357
February	42	43	34			231
March	249	70	18	8		264
April	201	20	20	4		150
May	245	39	16	15	 	165
June	220	32	9	7		123
Total	2,427	451	364	35	1	2,508
Last year	1,395	263	480	32		2,578

GARBAGE.

The garbage report shows a falling off in the amount collected compared with that of the year previous where there should have been a gain. This falling off can be accounted for by the Board of Health not being able last year to stop the sale of garbage by the hotels to outside parties and the throwing of garbage in our alleys. Both these causes will be greatly lessened the coming year under the provisions of the new garbage contract and ordinance.

In regard to the complaints for non-collection, experience does not change the comment made two years ago, that the larger part of such complaints are due to a lack of providing proper garbage receptacles, keeping them in the proper place, and ignorance of what constitutes garbage. The education of the public along this line by placing a copy of the ordinance in their hands will stop a large majority of the complaints.

GARBAGE COLLECTION.

1900	Monthly collection in 1bs.	Daily collection in lbs.	Complaints for non- collection
July	3,229,560	124,214	204
August	4,366,330	167,936	384
September	4,659,180	179,199	494
October	3,851,670	148,141	192
November	2,932,260	112,779	102
December	2,735,430	105,209	161
1901			
January	2,449,150	94,198	148
February	1,764,250	67,856	169
March	2,402,010	92,384	133
April	2,521,790	96,992	94
May	3,042,320	117,012	168
June	3,040,380	116,937	242
Total	36,994,330		2,491
Last year	38,450,000		2,800

QUARANTINE.

A comparison of this year's report with that of the year previous shows 10 more families were furnished with supplies, while the total number of persons were 20 less, costing \$770.16 more.

This increase of cost is due to the additional length of the time of detention while under quarantine, the period of diphtheria being from 3 to 10 days, and for scarlet fever 28 days.

Referring back to the police report, to which attention was called, it will be seen that the past year there were 451 places placarded for scarlet fever, against 263 the year previous, and 364 of diphtheria against 480.

The Board of Health solicit monthly tenders for the furnishing of these supplies, awarding the contract to the lowest responsible bidder.

The needs of each family asking for aid is carefully considered in this office, and supplies are issued accordingly, with a view to prevent the laying in for future store, to which there is always a tendency. Out of 851 families placed under quarantine, 448 asked for aid, which was given.

1900	Number of families quarantined	Number of families supplied	Number of persons supplied	Cost
uly	24	11	56	\$108 27
lugust	41	22	104	22 5 53
September	60	27	145	130 46
October	93	35	173	219 67
November	93	47	220	315 54
December	76	44	226	351 99
1901				
anuary	119	48	265	372 17
February	77	39	204	273 73
darch	96	51	252	478 38
April	54 .	40	199	271 82
May	70	36	189	245 11
une	48	48	235	428 35
Total	851	448	2,268	\$3,420 92
Year previous	777	438	2,288	\$2,650 76
Increase				\$770 16



CONCLUDING REMARKS.

In the report of the plumbing inspectors will be noticed figures under the head of special and smoke tests. These figures indicate the calls we receive for the inspection of old plumbing and drains, with a view to their improvement by reconstruction under our present sanitary regulations. This work, and the gradual removal of the old-time privy vault for general use, is steadily improving the sanitary condition of the city. For lack of proper surface drainage and the presence of these vaults, we find many a dwelling with stagnant water under them and in their cellars, fouled by their overflow and backage.

The proper care and removal of our garbage, effective sanitary drainage, clean streets and alleys, are very important items in the work of the Health Department in the proper maintenance and protection of the public health.

Steady improvement along these lines is going on. Much has been done, and there is still much more to do. Unsanitary conditions which have been permitted to stand for years, and to which people have become familiar, are not easily or quickly removed. We do the best we can with the means at our command and try to see that it is well done.

Respectfully,

A. B. RAYMOND,

Sanitary Engineer.

REPORT OF CHEMIST AND BACTERIOLOGIST.

Guy L. Kiefer, M. D., Health Officer:

DEAR SIR—I have the honor to present the following, which is a condensed report for the year ending June 30, 1901:

CHEMICAL ANALYSES.

Samples of milk for adulteration by watering or skimming	. •
Samples of milk for preservatives or other foreign substances	
Samples of oysters	2
Samples of cheese	2
Samples of city water supply	12
Samples of cream	7
Samples of butter	I
Samples of coffee	1
Samples of medicine	2
Samples of flour	1
Samples of meat for poison	I
Samples of powder from Police Department	I
Samples of sediment from water pipe	2
Experimental analyses	24
BACTERIOLOGICAL AND MICROSCOPICAL EXAMINATIONS.	
Samples of milk	ю
Samples of water	60
Samples examined for Klebs-Loeffler diphtheritic bacilli	364
Samples in which Klebs-Loeffler bacilli were found	107
Samples in which Klebs-Loeffler bacilli were not found	224
Samples indecisive (no growth on culture medium)	33
Samples of sediment from water	2
Miscellaneous bacteriological examinations	10
MISCELLANEOUS.	
Diphtheria culture sets prepared	410
Blood serum culture medium prepared	2,250
Nutrient gelatin culture medium prepared "	600
Carbolic acid-gelatin culture medium prepared "	180
Bouillon culture medium prepared " "	250
Times in court	I

MILK.

During the year a total of 1,047 samples of milk have been examined for preservatives, of which 32 contained formaldehyde, while boracic acid was found in 5. About 350 of these examinations, however, were made simply as a precautionary measure during the cool

weather, when there is little temptation, on the part of the dealer, to preserve his milk by chemical means, and, as was to be expected, these samples were all found to be pure. Twenty-eight out of the 37 samples containing preservatives were collected during July and August, 1900, while the other 9 were found during April, May and June of the present year. A quantitative analyses was made of 1,362 samples of milk to determine whether or not they were of the required chemical standard. Seventy-eight were below this standard, which is established by law, and is as follows:

Total solids not less than 12.50 per cent.

Butter-fat not less than 3.00 per cent.

Water not more than 87.50 per cent.

Specific gravity between 1.029 and 1.033.

The law allows skimmed milk to be sold as such, provided the cans or vessels containing it are properly marked.

At the request of several citizens, whose families were afflicted with typhoid fever, and who were customers of the same dealer, an investigation was made in order to determine whether or not the milk was the cause of the disease. Bacteriological examinations were made of several samples of the milk, and a thorough inspection was made of the premises, cows, cans, wagons, etc., by the Health Officer and Inspector, but absolutely no evidence was found pointing to the milk as the source of infection.

CITY WATER SUPPLY.

The monthly chemical and bacteriological examinations of our water supply have been continued during the year. All of the samples analyzed were in good condition, and show little variation from month to month, even less than in former years.

Owing to the general belief that there is a close connection between the water supply and the typhoid fever death rate of a city, it may be well to state here that, notwithstanding the fact that at two or three different times during the year unofficial reports of a typhoid fever epidemic were in circulation, yet in reality there were fewer deaths from that disease last year than at any time for several years past, and Detroit's typhoid fever death rate of recent years has been among the very lowest of all American cities. For the past year it was 1.54 per 10,000 population, and for the three preceding years—1898, 1899 and 1900—it was 1.60, 1.83 and 1.70, respectively.

The results of the monthly examinations of our water supply follow.

S. T.-Slightly Turbid.

T.-Turbid.

C.-Clear.

N. C.- Nearly Clear.

CHEMICAL ESTIMATIONS ARE IN PARTS PER MILLION.

	006	,,	,,	,,	,,	,,	106	••	,,	,.	••	,,
	l Ylul	August	September	October	Мочешьег	Decemper	January 1	Бергаагу	Матсһ	fi₁q A	May	Jane
Арреагансе	z. c.	z. C.	Z. C.	Z C	z. C	Z. C.	ပ	ე.	ن.	ī.	s. T.	<u>ن</u>
Total Solids	109 6	109.2	0.111	109.6	114.6	119.6	107.0	107.6	107.8	125.4	116.0	104.6
Volatile Matter	39.8	0 0	38	42.0	39 0	34.0	32.0	36.8	86.4	42.0	36.8	38 6
Non-volatile Matter	8.69	69 2	71.6	9.79	75.6	98	75.0	8.02	4.69	83.4	79.2	0 69
Free Ammonia	0 70.	.012	910.	.014	820	.012	.012	.012	.018	.024	.00	900
Albuminoid Ammonia	820	920.	86.	.114	86	07.5	470	\$	<u>0</u> ,	.110	.076	990.
Nitrogen as Nitrates	86.	.165	311.	.08	.150	.198	.130	86	.160	.115	.165	660.
Nitrogen as Nitrites	00.	00.	90.	00.	8	000	000	8	99.	8	.000	000
Chlorine	2 70	7.86	2 74	3.19	25.	7.60	2.54	3.33	3.38	79	2.70	2 85
Oxygen absorbed in 15 minutes	8.	8 .	‡	8	₩.	₹.	85	₽.	ĸ	S.	₹.	8
Oxygen absorbed in 4 hours	8	88.	89.	1.00	22.	2	36.	38	ż	88.	2.	3.
Bacteria (number) per cubic centimeter	ğ	130	203	9 8	81	19	8	9	જુ	55	8	41
: : : :	\$€	8	119	Ž,	7	71	æ	8	8	370	182	8
: : : : : : : : : : : : : : : : : : : :	148	115	\$	312	105	84	103	230	210	416	춙	110
: : :	105	*	75	ğ	26	108	88	\$8	286	95	5	88
Growth in .2 per ct. carbolic-acid gelatin	°Z	No.	Š	ů	No.	å	°N	ů	N _o	% N	°N	N _o

DIPHTHERIA.

The number of bacteriological examinations made in suspected cases of diphtheria was less this year than last. Three hundred and sixty-four samples were submitted by physicians this year, while 449 were sent in the year previous. This decrease is due to the fact that diphtheria has been less prevalent the past year, only about two-thirds as many cases being reported as the year before. Of the 364 samples examined 29.4 per cent contained the Klebs-Loeffler bacilli; 61.5 per cent contained other bacteria, while in 33 cases (9.1 per cent) the first examination was unsatisfactory, due in most cases to a lack of care in taking the sample.

MISCELLANEOUS.

The examination of other articles which appear in the summarized statement at the beginning of thise report were made in response to special complaints, many of which came from people who were quarantined.

Respectfully submitted,

W. I. TIBBALS,

Chemist and Bacteriologist.

REPORT OF MEAT INSPECTORS.

Guy L. Kiefer, M. D., Health Officer:

DEAR SIR—Following is our annual report as Meat Inspectors for the year ending June 30th, 1901:

Inspec	ted nativ	e cattle,	м. С	. R. R	. Stock	Yards			58,2 95
44	"	calves,	• •	**	**	••	,	· • • • • • • • • • • • • • • • • • • •	11,854
"	"	sheep,	"		66	• •		•••••	113,215
**	**	hogs,	• •	**	"	**			222,117
**	milch	ows in	city.		• • • • • •				821
"	**	calves	".						921
	carcass	es of beef	" .						26,565
44	**	veal	"				• • • • • • • • • • • • • • • • • • • •	••••••	21,386
44	• •	mutton	".						73,554
**	"	hogs	٠٠.				 .		16,262
**	dressed	poultry	".		• • • • • • •				707,963
44	coops o	f live chi	cken	s in çi	ty		<i>.</i>		10,655
44	₩.	" tw	keys	**	••••				372
**		" du	cks	"					1,453
		" ge	ese	**	• • • •				47
Co	ondemne	d as unfi	t for	huma	n food-	_			77
		G 63 641111		Huma					
Carcas							• • • • • • • •	Lbs.	2,030
Carcas	ses of be	ef (6)			• • • • • •			Lbs.	2,030 Q15
	ses of be	ef (6) ef (mino	r lots)	• • • • • • •		• • • • • • • • • • • • • • • • • • •		915
**	ses of be be ve	ef (6) ef (mino eal (23)	r lots)	•••••		• • • • • • • • • • • • • • • • • • •		915 1,137
64 64	ses of be be ve ho	ef (6) ef (mino eal (23) egs (3)	r lots)	•••••		• • • • • • • • • • • • • • • • • • •		915 1,137 750
" Chicke	ses of be be ve ho ens	ef (6) ef (mino eal (23) ogs (3)	r lots)	••••••		• • • • • • • • • • • • • • • • • • • •		915 1,137 750 1,025
 Chicke	ses of be be ve ho ens	eef (6) eef (mino eal (23) ogs (3)	r lots))	•••••		• • • • • • • • • • • • • • • • • • • •		915 1,137 750 1,025 372
Chicke Turke Hams	ses of be ve ho ens ys	ef (6) ef (mino eal (23) egs (3) on	r lots)			• • • • • • • • • • • • • • • • • • • •		915 1,137 750 1,025 372 895
Chicke Turke Hams Fish	ses of be be ve ho ens ys	eef (6) eef (mino cal (23) egs (3) con	r lots				••••••		915 1,137 750 1,025 372 895 550
Chicke Turke Hams Fish	bes of best very home with the seas	ef (6) ef (mino cal (23) egs (3) con or fresh u	r lots						915 1,137 750 1,025 372 895 550 40,000
Chicke Turke Hams Fish Fish a	ses of be ve ho ens ys and Bac s unfit fo	ef (6) ef (mino cal (23) egs (3) con or fresh u	r lots						915 1,137 750 1,025 372 895 550 40,000
Chicke Turke Hams Fish Fish a Nuts Berrie	ses of be ve ho ens ys and Bac s unfit fo	ef (6) ef (mino eal (23) egs (3) on or fresh w	r lots					"" ""	915 1,137 750 1,025 372 895 550 40,000 349
Chicke Turke Hams Fish Fish a Nuts Berrie Inspec	ses of be ve ho ens ys and Bac s unfit fo s " eted reta	ef (6) ef (mino eal (23) egs (3) on or fresh v dil meat,	r lots)	yhter l	ouses,	commis		915 1,137 750 1,025 372 895 550 40,000 349

Respectfully submitted,

ALEX. KITTLE,
PETER E. HIRTH,
Meat Inspectors.



MEDICAL INSPECTOR.

Guy L. Kiefer, M. D., Health Officer:

I have personally Disinfected various premises:

SIR—I herewith have the honor of submitting my report as Medical Inspector and Disinfector for the fiscal year ending June 30th, 1901.

On account of Tuberculosis....

"	Scarlet-fever	236
"	Diphtheria	196
"	Whooping Cough	1
	Yellow Fever	1
est of		11
		40
	" Scarlet-fever	71
reque		
		13
		50
		45
		43
•	affected with miscellaneous diseases	16
red ca	ses reported as Diphtheria to be in reality Scarlet-fever cases.	15
d susi	pect cases at Health Department	14
		17
		48
d and		345
	est of djour lete reque fected ed per leture led per led card susped an	" Whooping Cough " Yellow Fever est of various parties djourned Disinfection of premises by reason of : lete recovery from Diphtheria " " Scarlet-fever request or impossibility after death from, or removal of patient fected with Tuberculosis ed persons suspected of having Diphtheria lture of tonsillar or pharyngeal exudate led persons suspected of having Scarlet-fever

Respectfully submitted,

Reported immigrants who left without inspection.....

Referred immigrants to Inspector for the West Side.....

Vaccination seances at Health Department and in other localities.....

G. V. BECELAERE, M. D., L. L. B., Medical Inspector and Disinfector.



92

104

5

91

MEDICAL INSPECTOR.

Guy L. Kiefer, M. D., Health Officer:

DEAR SIR—I herewith submit my report as Medical Inspector and Disinfector for the year ending June 30th, 1901.

Disinfections	(diphth	eria).		195
"	(scarlet	fever)	308
"	(small p	ox)		60
••	(tubercu	ılosis)	·	79
"	(typhoi	d feve	r)	1
Inspections,	diagnosis	, etc.,	(diphtheria)	51
4.6	"	4.6	(scarlet fever)	105
"	**	"	(small pox)	160
"	66	"	for other than above diseases	22
Attendance o	n small j	pox ca	ses, visits	340
Immigrants i	inspected			196
Persons vacc	inated,		about	3,000
Small pox pa	itients r e i	moved	l to hospital	14
Persons remo	oved to h	ospita	l for isolation	9
Confinement	s (small j	pox p	atient)	1
Total number	r of small	l pox	cases	110

Respectfully submitted,

E. J. KENDALL,
Medical Inspector and Disinfector.

REPORT OF MILK AND FOOD INSPECTOR.

DETROIT, MICH., July 1, 1901.

Guy L. Kiefer, M. D. Health Officer.

DEAR SIR :-

The following is a report of my work as Milk Inspector for the fiscal year, ending June 30, 1901, together with some remarks upon matters connected with Detroit's milk supply, which are made as the result of a year's work and observation, and which perhaps may be of some value to the producers and consumers of milk in and about Detroit.

Samples of milk taken and examined by chemist1	362
Containing formaldehyde	32
Containing boracic acid	5
Below standard of 3 per cent. butter fat	
Visited and inspected dairies and milk depots at Ann Arbor, Sand Hill, Birmingham, Rochester and Mount Clemens	
Birmingham, Rochester and Mount Clemens	3 8

I examined all wagons and cans from which samples of milk were taken, and when found in an uncleanly condition, ordered them to be properly cleansed and so kept. Examination was made of all cow barns and stables within the city, and but few of them were found to be kept in a proper sanitary and cleanly condition. The owners were ordered to place their premises in proper condition, and in cases where cows were found to be unwell, were forbidden to sell the milk from them. In many cases cows were not allowed any exercise or fresh air, but were confined in their stables for an indefinite period, no bedding provided, and stables out of repair and uncomfortable. It seems to me that cow stables should not be maintained anywhere within the two-mile circle, and that an ordinance so providing should be enacted. Many cases were found where cows were fed chiefly

upon garbage collected ahead of the garbage collectors and kept in filthy receptacles. Wholesome milk cannot be expected from cows fed upon such food. In my opinion an especial effort should be made to compel owners to provide clean, comfortable and sanitary stables, wholesome food, pure water, and yards where exercise, fresh air and sunshine may be had.

All complaints made by citizens as to the quality or condition of milk, odors from barns and stables, etc., were promptly examined and the necessary notices given the offenders. Samples of milk were taken from wagons and stores, placed in clean bottles, tightly corked, the name of the owner taken, the bottles numbered and delivered to the Chemist for examination and report, the result being entered in detail in a general record book, which might be consulted by any person desiring to know the quality of milk collected from the dealer from whom he was taking milk. Many persons availed themselves of this privilege which seemed to give them much satisfaction. Care was taken to see that dealers properly labeled skimmed milk.

In my opinion it is very necessary to visit all milk depots and dairies and explain to their owners the necessity of immediately removing all animal heat from the milk, which can be done by stiring it thoroughly. If this is not done, in a can containing ten gallons, that in the center will not cool in less than eight hours. If the animal heat be removed as above described, the milk kept in clean vessels and a cool place, it will remain sweet for two days, but if not so treated it will soon turn sour and produce a bad odor. I found on visiting some of these depots and dairies much carelessness in this respect, and that the cans were not kept in a proper condition of cleanliness, making it necessary to condemn many hundreds of gallons of milk because it had not been properly cooled, and had been placed in dirty cans. More care should be used in the matter of food for milch cows. some cases they are allowed to eat large quantities of sugar beet tops, thus giving to the milk a very disagreeable taste and odor. Sugar beet pulp is also fed to cows to a considerable extent, and produces, if used before fermentation, milk below the required standard, and if after fermentation, of inferior quality and bad odor. If dairymen would make use of the appliances for cooling milk, now to be had, much trouble and loss to dealers and consumers would be avoided, because

if not properly cured it is impossible to keep it fresh until it reaches the consumer.

Many retail dealers when selling milk were found to neglect to properly stir the contents of the can, the result being that the cream being at the top would be sold first, and the remainder, of a much poorer quality, would be sold at the same price, thus doing an injustice to those who got the last of the lot. This would be obivated if the contents of the can were well stirred when sales were being made. It was found that the majority of grocers did not provide proper receptacles for milk, and kept it adjacent to meats, vegetables, and other things, which give off disagreeable odors, and are taken up to a considerable extent by the milk, rendering it somewhat impure and unpalatable. Milk should be kept in clean, air-tight vessels, in a sanitary refrigerator, and not subjected to contamination of any kind.

During the first part of my term many samples of milk in which preservatives were used, were found. The offenders were notified to appear at the Milk Inspector's office and confronted with the record of the analysis of milk offered for sale by them, and in most instances satisfied the Health Officer and myself that they were led to believe that the preservatives used were entirely harmless, and when warned against the further use thereof, the results were generally satisfactory, this course substantially stopping this practice and serving perhaps the purpose desired as well as complaints to the courts would have done.

Respectfully submitted,

M. B. FAUGHNER,

Milk Inspector.

\$1,500.00 with which to care for an outbreak of smallpox which was discovered on May 17th, in a large convent and orphanage.

As all the expenditures were absolutely necessary to properly care for the work of, and demands upon the Board of Health, the foregoing would seem to clearly show that a mistake was made by the Board of Estimates when they reduced by a large sum the amount estimated by the Board of Health to be necessary to provide for the public health affairs of the city for the last fiscal year.

The following shows the condition of the Board's finances at the close of the year, including the funds granted as above mentioned.

Original appropriation for fiscal year ending June 30, 1901	\$28,334.17
Granted by Common Council May 14	6,554.56
Granted by Common Council May 28, account of convent	1,500.00
Total appropriations	\$36,388.73
Total expenditures	\$ 35,989.37
Balance on hand July 1, 1901	\$ 399.36

Printing of this report has been delayed by the fact that some material parts thereof were not obtainable until recently because certain members of theformer staff of the Board resigned their positions about July 1st, and being thereafter much engaged in their own business, found it difficult to spare the necessary time to prepare their reports.

Respectfully submitted,

JOHN F. McKINLAY,

Secretary,

TWENTY-FIRST ANNUAL REPORT

OF THE

Board of Poor Commissioners

10 THE

COMMON COUNCIL OF THE CITY OF DETROIT

FOR

The Fiscal Year Ending June 30, 1901.



DETROIT, MICH.:
THE THOS. SMITH PRESS, CITY PRINTER,
1901.

CO

FREDERICK POSTAL OTTO SCHERER, M.

•
WAYS AND MEANS,
Purchases and Supplies, .
HOSPITALS AND TRANSPORTATION,
CLAIMS AND ACCOUNTS, .
President,
VICE-PRESIDENT,
SECRETARY,
SUPERINTENDENT,
CI.
A. H. GORENFLO, M. D. JAS.
R. L. KENNEDY, M

PHARMACIST, . .

COMMISSIONERS.	TERM EXPIRES.	RESIGNATIONS, ETC.
Thomas Berry,	Jan. 13, 1881.	
A. W. Copeland,	" 13, 1882.	Resigned January 28, 1881.
Edward Kanter,	" 13, 1882.	
Henry Heames,	" 13. 1883.	
Jos. B. Moore,	" 13, 1884.	
Thomas Berry,	" 13, 1885,	Resigned February 17, 1882.
W. K. Muir,	" 13, 1885.	1100.81104 2 001441 9 11, 1442.
Edward Kanter,	June 30, 1886.	Resigned June 20, 1884.
Simon Heavenrich,	" 30, 1886.	, ,
Henry Heames,	" 30, 1887.	
Jos. B. Moore,	" 30, 1888.	
W. K. Muir,	" 30, 1889.	Resigned January 14, 1886.
F. K. Walker,	" 30, 1889.	Resigned December 6, 1887.
Ira A. Metcalf,	" 30, 1889	Resigned February 28, 1888.
W. K. Muir,	" 30, 1889.	
Siegmund Simon,	·· 30, 1890.	
W. V. James,	" 30, 1891.	Died.
George Lane,	" 30, 1891.	
Jos. B. Moore,	" 30, 1892.	
W. K. Muir,	" 30, 1893.	Died.
W. R. Candler,	., 30, 1893.	
Siegmund Simon,	30, 1894.	
Thomas Barlum,	" 30, 1895.	
C. E. Letts,	" 30, 1896.	
F. B. Dickerson,	·· 30, 1897.	Resigned March 10, 1896
A. C. Varney,	" 30, 1897.	
John Naylon,	" 30, 1898·	
L. H. Beck,	·· 30, 1899.	Died.
Dr. Otto Scherer,	" 30, 1899.	
Thomas Barlum,	" 30, 1900.	
A. C. Varney,	" 30, 1901.	
John Naylon,	" 30, 1902.	Resigned July 17, 1901.
Siegmund Simon,	" 30, 1902.	
Thomas Barlum,	" 30, 1 9 03.	Resigned November 13, 1900
Capt. Jno. S. Quinn,	" 30, 1903.	
Dr Otto Scherer,	" 30, 1904.	
Frederick Postal.	" 30, 1905.	

COMMISSIONERS' REPORT.

To the Honorable the Common Council:

GENTLEMEN—We beg leave to submit this, our Annual Report for the fiscal year ending June 30, 1901.

During the year 1,673 families, numbering 6,070 persons, were granted \$24,045.50 in provisions, 1.904½ tons of coal and 387 cords of wood.

Two hundred and seven deceased poor were buried and 103 furnished burial ground only, at an expense of \$1,744.35.

Six hundred and forty-two poor patients were treated in the different city hospitals, at an expense of \$7,579.67.

Nine thousand three hundred and forty-eight cases were treated by the City Physicians, necessitating the compounding of 23,121 prescriptions, with an outlay of \$1,806.67 for medicines.

The total expenditures for the year, exclusive of the Agricultural Fund, was \$54,073.43. Five hundred and twenty-five admissions to the County House were issued.

The expenditures were \$9,109.73 less than the previous year, and we believe have now reached a point where further reduction is not to be expected, as the amount expended is about what would be required to provide for the helpless needy regardless of the condition of the times.

Some complaint was made as to the funerals furnished the poor, and we changed our specifications so as to provide a better coffin than heretofore furnished. This will necessitate a larger expenditure for that item. The price of hard coal has increased a dollar a ton, which will also be a source of additional expenditure, otherwise the expense of the department should not be greater for the current year than for the past one.

The prospects for a good yield from the potato patches are favorable, which will be a source of considerable help to such of the poor as were able to plant them.

The Agricultural Committee will publish a detailed report when the crops are harvested.

Full details of the Annual Report will be found in the reports of the Secretary, Superintendent and City Physicians, submitted as a part of it.

Respectfully submitted,

SIEGMUND SIMON,
OTTO SCHERER,
JOHN S. QUINN,
FRED POSTAL,
Board of Poor Commissioners.

By the Board,

P. H. DWYER, Secretary.

To the Honorable, the Board of Poor

GENTLEMEN—I have the honor the city fiscal year ending June 30

It shows the bills allowed, a c statement, a condensation of mor table showing the transportation t issued to.

Ver

GENERAL FUND.

BILLS ALLOWED.

1900				
July	٤	A. H. JonesCar fare\$	2	90
		Geo. W. Watson, AgtTransportation	14	15
		Van Loon PharmatyCrutches	1	50
		Detroit LiveryCarriage hire	4	00
		Mt. Olivett Cemetery CoBurfal ground	17	00
		Annie OttoToilet service	2	00
		Detroit TribuneAdvertising	5	51
		John JacobCar fare	3	25
	9	Pay RollEmployes of Board	282	46
		Grocers, et alProvision orders paid	1,853	50
		R. H. Fyfe & CoShoes	1	50
		The J. L. Hudson CoShoes	1	5 0
		J. C. KratzShees	3	50
		Theo. NagelShoes	1	50
		H. KaiserShoes	4	7 5
		Valpey Shoe CoShoes	7	00
		P. J. SchmidtShoes	1	25
		Fiske & OldeShoes	5	50
		Thos. Smith PressPrinting, blanks, etc	81	04
		Thos. BeggsWood	23	25
		Henry Boyd Ambulance service, etc	19	50
		Forest Lawn Cemetery CoBurial ground	16	00
		L. ('ylkowskiBurials	28	75
		J. F. LingemannMessenger service	4	05
:	16	St. Mary's HospitalCare of sick	491	17
		Emergency HospitalCare of sick	174	78
		August MarxhausenAdvertising	10	56
		J. F. H. ZiezlerShces	1	00
		Detroit Journal CoDaily paper	1	25
		Jas. Rhines, AgtTransportation	26	2 2
		The Richmond & Backus Co Books and stationery	38	79

	Merchants' Parcel Delivery Co	Cartage	3 77
21	Pay Roll	Employes of Board	301 76 °
	Merz Capsule Co	Filled capsules	2 50
	Parke, Davis & Co	Drugs and medicines	29 87
	Handy & Bird	Drugs and medicines	10 00
	Merchants' Parcel Delivery Co	Cartage	76
	Whitall, Tatum & Co	Bottles	69 22
25		Stamped Envelopes	10 60
		Employes of Board	292 11
		Burials	63 50
	-	Burial ground	43 50
		Care of sick	32 00
		Burial ground	79 50
		Ambulance service	
		Shoes	13 00
			1 50
		Car fare	2 90
		Car fare	28)
		Shoes	1 50
		Trusses, etc	10 50
		Toilet service	2 00
		Drugs and medicines	8 15
	•	Shoes	1 90
		Shoes	3 OC
		Shoes	33 50
	F. Keibler	Shoes	1 25
	Grocers, et al	Provision orders paid	1,397 50
13	Michigan Drug Co	Drugs and medicines	58 34
	Lambert & Lowman	Drugs and medicines	18 30
	F. Stearns & Co	Drugs and medicines	20 84
	Rowe, Starke & Co	Shoes	1 50
	Michigan Telephone Co	Telephone rental	20 36
	Jas. Rhines, Agt	Transportation	12 02
	Emergency Hospital	Care of sick	71 98
	St. Mary's Hospital	Care of sick	434 60
20	Pay Roll	Employes of Board	301 76
	A. Schaub	Spectacles	50
Sept. 1		Employes of Board	292 11
10	· ·	Provision orders paid	1,239 25
		Wood	11 37
	****	Drugs and medicines	41 64
		Drugs and medicines	3 64
		Drugs and medicines	8 80
		Drugs and medicines	12 80
		Drugs and medicines	3 40
		Drugs and medicines	36 31
		Burials	
		Burial ground	58 25 57 50
	•	. Burial ground	57 50
	D E Solbort		41 50

Sept. 10	Valpey Shoe CoShoe	28	6	00
	The J. L. Hudson CoShoe	es	1	50
	A. ZimmermannShoe	es	1	50
	Geo. W. Watson, AgtTrai	nsportation	21	60
	A. F. Wolfschlager, AgtTran		3	50
	Jas. Rhines, AgtTran	_	24	15
	The Richmond & Backus Co Stat	ionery	5	80
	The Thos. Smith PressPrin		28	00
	A. H. JonesCar		2	00
	John JacobCar		_	35
	Mrs. A. OttoToile			00
	Henry BoydAmit		23	
	Detroit Tribune	-		50
	The Wilton Reuther CoStat			00
	The Detroit Journal CoAdv	-	12	
15	Emergency Hospital	-	85	
10	St. Mary's Hospital		485	
	The Richmond & Backus Co Stat			89
	Nelson, Baker & Co		18	
	The Thomas Smith Press Prin	•		55
	Pay RollEm		282	
•••	House of ProvidenceCare		48	
-0	Mrs. A. OttoToll			00
	R. L. Polk & CoCity		_	65
	Forest Lawn Cemetery Co Buri		46	
	Mt. Olivet Cemetery Co Burn		50	
Oct 6	John Jacob	_		05
.,	A. H. JonesCar			(r)
	A. Kuhlman & CoTrus			25
	George W. Watson, Agt Trai	•	14	
	A. F. Wolfschlager, AgtTran		10	
	Jas. Rhines, AgtTrai	-		8)
	Henry BoydAmb		13	
	V. Geist & SonBuri		10	
	I. CyikowskiBuri		48	
	Thomas BeggsWoo		16	
	Jos. Boell Shoe			50
	Walter, Krausman & Kuhn Shoe			50
	J. E. Runge Shoe			00
	F. J. FeilmanShoo			00
	C. & F. King Shoe			00
	Pay Roll Emp		292	11
13	Emergency HospitalCare		70	27
-	Grocers, etcProv		525	75
	D. & C. Navigation Co Trai			50
	Parke, Davis & Co Dru	-		38
	Lambert & Lowman Drug		13	79
	Parke, Davis & Co Dru		43	28
	The Thos. Smith Press Prin	_	170	11
	P. M. Hickey, M. D Intu	=	10	00

	The Richmond & Backus Co	Stationery	7	43
	St. Mary's Hospital	Care of sick	570	59
	Pav Roli	Employes of board	301	76
Nov. 3	B. R. Shurly, M. D	Intubation	5	90
	Henry Boyd	Ambulance service	16	90
	John Jacob	Car fare	2	5 (i
	Mrs. A. Otto	Toilet service	2	0)
	Mt Olivet Cemetery Co	Burial ground	62	00
	A. H. Jones	Car tarc	2	2.)
		Burial ground	27	50
	Albert Schaub	Spectacles	4	00
	B. Miller	Shoes	1	25
	Valpey Shoe Co	Shoes	5	09
		Employes of board	292	11
			.720	25
	•	Coal	688	33
		Soft Coal	337	73
		Trusses, etc	5	50
		Burials	30	75
	-	Shoes	1	50
		Shoes	1	J 0
		Shoes	1	25
	_	Shoes	1	00
		Shoes	1	(9)
		Transportation		it
		Transportation		56
		Stationery		01
		Daily paper	-	25
		Transportation		76
17		Employes of board	328	
		Drugs and medicines		80
		Drugs and medicines		80
		Printing blanks		30
		Hard coal	437	
		Delivering coal		37
		Transportation		00
30		Employes of board	319	-
		Care of sick	511	
		Care of sick		26
		Drugs and medicines		98
		Drugs and medicines		01
		Drugs and medicines		01
		Transportation		24
		Car fare		35
		Car fare		w
		Toilet service		00
		Telephone rental	-	55
		Telephone rental	14	75

Dec. 8	Grocers, etc	Provision orders paid	1,945	25
	J. C. Kratz	Shoes	2	90
	William Daley	Delivering fuel	77	90
	Thos. Beggs	Delivering coal	\$9	90
	W. L. Newkirk	Delivering wood	16	31
	Geo. W. Watson, Agt	Transportation	43	80
	A. F. Wolfschlager, Agt	Transportation	5	0
	L. Cylkowski	. Burials	42	70
	Forest Lawn Cemetery Co	Burial ground	32	00
	Mt. Olivet Cemetery Co	. Burlal ground	46	00
	Parke, Davis & Co	Drugs and medicines	34	90
	B. R. Shurly, M. D	. Intubations	45	0.
		.Shoes	3	7 5
		Shoes	2	00
		Shoes	4	25
		Shoes	5	00
		Shoes		00
		Shoes		51
				00
		.Shoes		50
		.Shoes	_	. GO
		.Shoes	-	25
		Shoes		
		.Shoes		75
		.Shoes		50
		.Shoes		25
		Shoes		00
	F. J. Fellman	Shoes	7	00
	Fred Toepel	Locks, etc		75
	Roehl Bros	.Cartage	1	50
	H. Boyd	.Ambulance service	17	00
15		.Hangiag picture, etc	1	27
	Jas. Rhines. Agt	.Transportation	6	50
	The Richmond & Backus Co	Stationery	13	23
	I F Lingemann	. Messenger service	17	55
	Pay Roll	.Employes of Board	318	11
22	Thos. Beggs	Delivering coal	11	65
22	A V Malcomeon	.Coal and wood	629	64
	A. 1, Marcomson	Care of sick	73	67
	Emergency Hospital	Care of sick	533	43
	St. Mary's Hospital	Shoes		65
	C. Dubbelman	William convice		00
	Mrs. A. Otto	.Toilet service		50
	C. F. Hogg & Son	Bicycle repairs	2	
1901.		_		50
Jan. 5	A. Kuhlman & Co	.Trusses. etc		
	P. J. Schmidt	.Shoes		50
	F. J. Fellman	Shoes		00
	Valpey Shoe Co	Shoes		00
	Williaw Daley	Delivering fuel	112	
	T No mining	Delivering wood	36	56

	D. CytkowskiBurlais	40	8
	Forest Lawn Cemetery CoBurlal ground	20	5
	Mt. Olivet Cemetery CoBurial ground	50	0
	House of ProvidenceCare of sick	16	0
	Geo. W. Watson, AgtTransportation	17	6
	Henry Boyd Ambulance service	22	0
	John JacobCar fare	2	6
	The Richmond & Backus Co Stationery		50
	The Pittmans & Dean Co Hard coal	240	
	A. F. Wolfschlager, AgtTransportation	13	_
	Jas. Rhines, AgtTransportation	17	
	A. H. Jones		3
			10
	Board of Water Commissioners. Water		
	Pay Roll Employes of Board	318	
12	Grocers, et alProvision orders paid	2,271	
	B. R. Shurley, M. DIntubations	50	-
	Thos. BeggsDelivering coal	119	
	The J. L. Hudson CoShoes		50
	H. Van LoonShoes	4	00
	Rowe, Starke & CoShoes	1	56
	John E. RungeShoes	4	50
	Michigan Drug CoDrugs and medicines	33	()(
	Lambert & LowmanDrugs and medicines	22	5
19	The Thos. Smith PressPrinting, etc	25	9
	A. Y. MalcomsonCoal	878	8
	A. Y. MalcomsonWood	915	3
	Emergency HospitalCare of sick	141	66
	St. Mary's HospitalCare of sick	486	0
	Pay RellEmployes of Board	329	
	J. C. KratzShoes		01
	(', J. MerbachShoes	46	
	Parke, Davis & Co	17	-
			00
	The T. B. Rayl CoTape line	24	
	Michigan Telephone CoTelephone rental		_
	Jno. J. Mitchell		0:
	H. E. Hatch Butcher Supply Co., Adjusting scale		7!
2	Mt. Olivett Cemetery CoBurial ground	73	
	Forest Lawn Cemetery CoBurial ground	50	
	Mrs. Annie OttoToilet service		00
	Henry BoydAmbulance service	16	
	Walter, Krausmann & KuhnShoes	2	7
	Allen & ReichrathShoes	2	50
	John JacobCar fare	2	30
	A. H. JonesCar fare	2	10
	Thos, BeggsDelivering coal	167	8
	W. L. NewkirkDelivering wood	48	3
	Geo. W. Watson, AgtTransportation	10	80
	A. F. Wolfschlager, AgtTransportation	4	00
	P. M. Hickey, M. DIntubation	10	

reu.	_	The J. F. Hartz Co Drugs and medicine	31	08
		Fay Roll Employes of Board	306	46
	9	Grocers, et alProvision orders paid	8,042	00
		J. F. H. ZieglerShoes		00
		A. HartzShoes	1	50
		Jos. KingShoes	5	00
		R. G. Scholes & SonShoes		50
		Valney Shoo Co	1	
		Valpey Shoe Co		25
		Rowe, Starke & CoShoes		5 0
		Adam Brandau Shees		5 0
		C. J. WagstaffShoes		50
		C. J. MerbachShoes	33	15
		Whithall, Tetum & Co Botties	42	63
		A. Kuhlman & CoTrusses, etc	10	50
		G. H. Sherman & Co Intubation	10	00
		Merchants' Parcel Del. CoCartage	3	14
		Pittmans & Dean Co Hard coal	473	90
		L. CylkowskiBurials		40
		Jas. Rhines, AgtTranspertation		60
		The Richmond & Backus Co Stationery	-	74
		William Daley Delivering fuei		
	16	Pay RollEmployes of board	306	
	.,	P. M. Hickey, M. DIntubation		(r)
		The Illustrated Med. Journal Co. Vaccine points		30
		-		
		Edson, Moore & CoGauze cloth		. 27
		Lambert & Lowman		33
		Parke, Davis & Co		::0
		Nelson, Baker & Co Drugs and medicines		4)
		Mich: Drug Co Drugs and medicines		
		The J. L. Hudson CoShoes	1	. 60
		A. Y. MalcomsonCoal		
		A. Y. Malcomson,Wood	261	17
		Grunow & Patterson Medicines	17	85
	23	The Baille Coal Co	143	41
		St. Mary's HospitalCare of sick	499	17
		Emergency Hospital Care of sick	147	38
		House of Providence Care of sick	82	00
		B. R. Shurly, M. D Intubations	30	00
		Farrand, Williams & Clark Drugs and medicines		08
		F. F. Ingram & Co Drugs and medicines) iji
		Annie OttoToilet service		0"
Mar	4	Pay Roll Employes of board		11
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Roehl BrosCartage		00
		Mt Olivet Cemetery Co		. 50 . 50
				70
		L. Cylkowski		. 50
		Albert SchaubSpectacles		46
		Geo. W. Watson, AgtTransportation		
		Pere Marquette R. RTransportation		60
		John J Mitchell	. 2	70

BOARD OF POOR COMMISSIONERS

A. H JonesCar fare	2 20
John JacobCar fare	2 %
W. L. NewkirkDelivering wood	54 76
William Daley Delivering fuel	
	137 45
Thos. BeggsDelivering coal	186 30
Grocers, et alProvision, orders paid	3,136 00
The Pittmans & Dean CoHard coal	73 8 02
The Baille Coal Co	148 16
A. Y. MakeomsonSoft coal	141 04
Mich, Drug CoDrugs and medicines	11 2 5 5
Parke, Davis & CoDrugs and medicines	60 36
Lambert & Lowman	55 1 6
The J. F. HartzDrugs and medicines	36 65
A. Kuhlman & CoTrusses, etc	1 50
L. J. Hirschman, M. DIntubations	10 00
P. M. Hickey, M. DIntubations	10 00
B. R. Shurly, M. DIntubations	10 00
D. J. MayCarriage hire	4 90
Forest Lawn Cemetery Co Burial ground	81 00
Allen & ReichrathShoes	1 30
F. J. FellmanShoes	9 30
Chas ZoellnerShoes	2 00
M. E. Sill	2 00
Meister & MeisterShoes	1 00
John E. RungeShoes	4 25
J. ('. KratzShoes	1 50
Jas. Rhines, AgtTransportation	12 22
J. F. LingemannMessenger service	10 80
Henry PoydAmbulance service	9 00
Detroit Journal CoDaily paper	125
The J. F. Weber CoLumber	4 09
F. B. Dickerson, P. MStamped envelopes	10 60
The Richmond & Backus CoStationerv	10 12
Pay Roll Employes of board	318 11
Farrand, Williams & Clark Drugs and medicines	82 2)
The Baille Coal Co	128 58
The Merz Capsule Co Drugs and medicines	10 00
Parke, Davis & Co	52 94
Emergency Hospital('are of sick	96 97
St. Mary's Hospitalare of sick	573 41
Detroit Telephone Co Telephone rental	23 50
Michigan Telephone CoTelephone rental	11.74
C. J. MerbachShoes	£7 25
Det. & Lima Northern R. R Fransportation	1 70
Mrs. A. OttoToilet service	2 00
Ruoff & Co Shoes	1 50
Mt. Elliott Cemetery CoBurial ground	45 00
deo. W. Watson, AgtTransportation	8 35
John Jacob	2 40
A. H. Jones	2 10
A. H. JonesCar Tare	a 90

6

L. CylkowskiBurfals	56 80
Forest Lawn Cemetery CoBurial ground	28 56
Grocers, et alProvision orders paid	3,045 25
Pittmans & Dean CoHard coal	311 0
W. L. Newkirkbelivering wood	49 13
Thos BeggsDelivering coal	143 40
Pay Roll Employes of board	318 11
A. Kuhlman & CoTrusses, Etc	9 50
H. Sarbinowski & CoShoes	2 00
J. BermanShoes	3 50
J. E. RungeShoes	2 00
C. OldaniShoes	3 25
Ruoff & CoShoes	2 00
F. J. FellmanShoes	4 50
Jos. KingShoes	8 50
Allen & Reichrath Shoes	2 00
Walter, Krausmann & KuhnShoes	1 50
D. E. SeibertShoes	1 00
J. C. Kratz Shoes	3 00
H. KaiserShoes	5 50
R. H. Fyfe & CoShoes	1 50
Jas. Rhines, AgtTransportation	11 67
A. F. Wolfschlager, AgtTransportation	3 50
The Thos. Smith PressPrinting blanks, etc	12 38
Fletcher Hardware Co Saw frames	66
Henry BoydAmbulance service	12 (N)
Home Messenger Service Messenger service	2 70
Edson, Moore & CoGauze choth	12 (16
F. F. Ingram & Co Drugs and medicines	8 62
Lambert & Lowman	28 56
The Merz Capsule CoDrugs and medicines	5 00
J. J. Mitchell	11 03
G. H. Sherman, M. DIntubations	10 00
Gratlot Shoe HouseShoes	2 00
Emergency HospitalCare of sick	121 10
St. Mary's HospitalCare of sick	721 86
A. Y. MalcomsonSoft coal	786 32
J. F. H. ZieglerShoes	1 50
William Daley Delivering fuel	148 69
Thos. Beggs Delivering coal	25 06
Parke, Davis & Co	57 79
Michigan Drug Co	97 87
Pay Roll Employes of Board	292 11
Pay RollEmployes of Board	292 11
L. CylkowskiBurials	56 50
Mt. Olivett Cemetery CoBurial ground	69 00
Forest Lawn Cemetery CoBurial ground	
Allen & ReichrathShoes	
C. A. ShaferShoes	_
Gratiot Shoe HouseShoes	2 00
Granot once nouse	₩ 191.

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June

	W. J. DahnkeShoes	2 00
	Walter, Krausmann & KuhnSnoes	3 00
	F. KieblerShoes	1 00
	J. B. GreenbergClothing	2 25
	Valpey Shoe CoShoes	11 00
	E. R. Shurly, M. D Intubation	10 00
	A F. Wolfschlager, AgtTransportation	1 50
	H. BoydAmbulance service	9 00
	J. JacobCar fare	2 75
	A. H. JonesCar fare	2 85
	Merchants' Parcel Delivery CoCartage	4 06
	Mrs. A. OttoToilet service	2 00
	Pere Marquette R. RTransportation	3 25
	Jas. Rhines, AgtTransportation	4 26
	Grocers, et al	1,686 75
	· · · · · · · · · · · · · · · · · · ·	115 40
	Emergency HospitalCare of sick	
	Rowe, Starke & CoShoes	50
	Roehl BrosCartage	2 00
	A. Kuhlman & CoTrusses, etc	9 00
	Lambert & LowmanDrugs and medicines	30 73
	The Richmond & Backus CoStationery	10 95
	Jos. KingShoes	2 00
	Parke, Davis & CoDrugs and medicines	41 34
	W. L. Newkirk Delivering wood	15 19
0	The J. F. Hartz Co Drugs and medicines	19 36
	Etta RamsayNursing sick	1 50
	Merchants' Parcel Delivery CoCartage	25
	D. J. MayCarriage hire	4 00
	St. Mary's HospitalCare of sick	504 29
	Pay Roll Employes of Board	301 76
7	Mrs. A. OttoTollet service	2 00
•	G. H. Sherman, M. DIntubations	10 00
	Thos. Smith PressPrinting blanks	4 32
	F. F. Ingram & Co	8 86
3	Pay Roll Employes of Board	292 11
.,	Albert SchaubSpectacles	2 50
	Henry BoydAmbulance service	13 50
	Forest Lawn Cemetery CoBurial ground	41 00
	Mt. Olivett Cemetery CoBurial ground	42 50
	Grocers, et alProvision orders paid	1,440 25
3	W. PiepenburgShoes	1 00
	Jas. Rhines, AgtTransportation	7 45
	H. KaiserShoes	3 75
	A. J. KelleyShoes	2 00
	John Jacob	3 90
	P. J. SchmidtShoes	2 00
	B. MillerShoes	2 00
	Ruoff & CoShoes	1 00
	C. A. ShaferShoes	2 00

June	8	Allen & ReichrathShoes	1	25
		J. C. KratzShoes	1	25
		William HaarzShoes	2	00
		Lambert & LowmanDrugs and medicines	11	33
	10	L. CylkowskiBurials	46	40
		Postal Telegraph-Cable CoTelegrams		94
	15	J. F. LingemannMessenger service	5	25
		A. Kuhlman & CoTrusses, etc	3	00
		William Daley Delivering fuel	2	61
		Detroit & Cleveland Nav. CoTransportation	3	75
		A. Wolfschlager, AgtTransportation	22	90
		Thos. Smith PressStationery	54	00
		Parke, Davis & Co	46	91
		Farrand, Williams & ClarkDrugs and medicines	45	80
		Pay Roll Employes of Board	256	06
		Total	.073	 43

GENERAL FUND.

BILLS ALLOWED-CONDENSED.

Provisions	1,303	00
Fuel and delivery	9 ,609	25
Salaries	7,253	24
Hospital expenses	7,067	21
Drugs and medicines, etc	227	72
Burials and ground	1,739	80
Shoes and clothing	460	05
Transportation	370	6i
Printing and stationery	521	63
Miscellaneous	520	79
	4.073	43

AGRICULTURAL FUND.

BILLS ALLOWED.

The Thos. Smith Fress	rinting dianks	1	44
Brede & Schroeter	Signs	4	50
J. & T. Hurley	Cartage	10	()(i
The Thos, Smith Press	Printing annual report	8	60
F. B. Dickerson, P. M	Postal Cards	10	0 1
M. J. Thiesen	Stakes	9	W
Thos. Smith Press	Printing blanks	2	88
W. A. Prime	Plowing Land	41	06
Grand Trunk R. R. Co	Freight charges	16	50
C. Bewick	Rental of land	25	00
Peter Michaels	Plowing land	18	2 5
F. J. Rohrig, Jr	Plowing land	46	69
V. Van Every & Co S	Seed potatoes	01	5 1
Frank Kolbl	Labor	9	75
Grand Trunk R. R. Col	Freight charges	14	85
A. H. Jones	ar fare	2	50
William Daley	Plowing land, etc	85	86
Pay Roll	Salaries	26	49
	_		_

AGRICULTURAL FUND.

BILLS ALLOWED—CONDENSED.

	201 61
	171 85
***************************************	41 35
	36 15
	25 0 0
	12 92
	25 50
•	
	514 38

ANNUAL STATEMENT.

30	General Fund Balance		
	Agricultural Fund Contra Balance		\$ 150 22
1	General Fund Appropriation	55,000 00	
	Agricultural Fund Appropriation	500 00	
8	County of Wayne (Fuel and Medicines)	222 57	
2	Sale of effects of Wm. Graves	. 70	
0	County of Wayne (Fuel)	178 39	
8	Sale of Potatoes	35 15	
0	L. Cylkowski, Burial refund	3 05	
0	Bills Paid, General Fund	•	54,073 43
	Bills Paid, Agricultural Fund	1	514 38
	General Fund Balance		1,657 11
	Agricultural Fund Contra Balance	129 45	•
		*EC *OF 14	950 DOE 14

) .oM	1.584	1,572	1,74	1,828	2,284	3,728		4.452	4.80 4.80	4,524	2,220	1,680	1,556	:
O .ON	8	393	\$	457	571	332		1113	1201	1131	555	62	6 6	
No. tr	736	83	229	713	719	86		1393	30	100	\$6	672	\$	9552
Sent to	\$	\$	\$	8	<u>8</u>	2		\$	4	a	8	*	75	33
boo W	*	1%	2,2	3%	ଛ	63%		80%	87%	8	33,	212	1%	188
Hoe	- -			1%	32,72	717		304%	3261/2	172	×	:		1243
Hard	:	:	:	7.5	3912	Ħ		1581	175%	146	26.52	:		6601/243
Miscellan	\$64 15	41 56	88	17 05	\$	# #		63 62	22 52	45 29	15 36	**	8	\$470 35
Water	**	•	જ	જ	3	:		:	65	1 30	9 7	:		98 154
Transports	\$12 02	49 25	88	15 45	55 30	3 8		23	30 28	22 22	10 6	38	15 60	£339 88
O bus soods	\$19 00	18 50	37 25	22	8	83 \$		8	57 00	8	8	23 00	23 25	\$468 65
D bus als and C	\$187 50	157 25	155 25	120 25	88 75	111 30		188 40	225 20	129 30	149 00	129 90	102 25	\$1,744 35
anoi1sdu1nI	:	:	\$10 00	10 00	45 00	20 00		:	8 %	10 00	10 00	80		\$245 00
Medicines, Etc.	\$13 22	8	143 67	123 20	194 32	114 67		249 19	70 X	200 48	153 40	141 91	136 46	\$1,706 63
Hospitals.	\$5.38.58	571 16	98 889	541 38	607 10	643 70		678 55	8E 699	842 %	619 619	599 14	579 17	50 \$7.579 67
Provisions	\$1,373 00	1,392 00	1,512 00	1,662 25	1.823 25	2,443 75		3 087 00	3,144 00	2,879 75	1.678 25	1,512 50	1,537 75	\$24,045 50
MONTHS	rgoo	August	September	October	November	December	7061	January	February	March	April	May	June	Totals

TRANSPORTATION.

•				
e. 1, Mich		}	No. of	Tickets.
N. Y				• -
o, N. Y				
eld, Mich				
Creek, Mich				
o, Ill				
and, Ohio				and 3 halves.
nati, Ohio				
do Springs, Col				
wille, Mich				half.
rk, N. Y				
Centre, Ont				
in. Mich				
Rapids, Mich				
ck, Mich			і	
tone, Ont			і	
prings, Ark			т	part.
City, Mo	. 		г	part.
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To

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To the Honorable, the Board of Poor Commissioners:

GENTLEMEN—I herewith submit my report for the fiscal year ending June 30, 1901.

The different information I have prepared in the shape of tables, with brief headings, which will serve as a key thereto.

Very respectfully,

J. F. MARTIN,
Superintendent of Poor.

TABLE No. 1.

Showing the nativity, number of families and persons aided and the amount of wood, coal and provisions given to each nationality and color.

NATIVITY AND COLOR.	Families	Persons	Cords of Wood	Tons of Coal	Amount of Provisions
United States	431	1,479	331/2	426	\$ 4,840 00
Poland	317	1,453	1061/4	3211/2	5,746 00
Germany	252	879	951/2	2903/2	4,408 00
Canada	193	681	301/2	247	2,163 00
Ireland	139	336	48¾	1523/2	2,147 50
Colored	96	318	41/4	143	689 00
West Prussia	82	306	39¾	821/2	1,425 00
England	71	244	151/2	93	941 00
Russia	45	188	61/4	801/2	1,035 00
Scotland	14	45	1¾	231/2	210 0 0
Italy	7	40	134	12	1 3 3 0 0
Switzerland	5	18	1!4	5	33 00
Holland	5	17		61/4	49 00
France	5	22	13.	4	45 0 0
Bohemia	3	18		21/2	21 00
Nova Scotia	2	5		4	49 00
Austria	2	6		4	17 00
Belgium.	1	2		1	26 00
West India	1	2		3	21 00
Norway	1	7		1	3 0 0
Denmark	1	4	ļ	112	44 00
Total	1,673	6,070	387	1,904¼	\$24,045 50

TABLE No. 2.

Showing the cause of Poverty of each nationality, etc., of those aided with fuel, provisions. etc.

Nativity and Color	Sickness	Widows	Large Family	Out of Work.	Old Age	Deserted Wives	Husbands in Prison	Dissipated Busbands	Crippled	-=	Insane Husbands	Total
United States	174	96	7	13	67	59	8	2	4	1		431
Poland	139	54	20	7	51	32	6	3	2	1	2	317
Germany	89	58	3	8	56	27	1	3	4		3	252
Canada	67	45	3	4	20	45	3	2	2	1	1	193
Ireland	32	28	!. .	2	55	15	2	3	1	1		139
Colored	45	11	2	1	22	11		1	1	1	1	96
West Prussia	23	15	2	2	29	10	1					82,
England	27	10	3		19	10	· 			1	1	71
Russia	14	10	1	1	7	9				2	1	45
Scotland	4	4	ļ . .	1	3	2			 			14
Italy	4	1	1	ļ		1	ļ		į		j j	7
Switzerland	1	1			2	1	ļ		 			5
Holland	3	1	 -	. .		1	! !···	 .		· · · · · ·		5
France	2	1	1			1	ļ					5
Bohemia		2	1				۱					3
Nova Scotia	2	.	ļ		 		ļ . .					2
Austria	1			 -	1	ļ	ļ					2
Belgium	1					ļ	¦					1
West India	ļ	1	ļ	.			ļ					1
Norway	1		ļ		 		ļ		 			1
Denmark		1					ļ	ļ				1
Total	629	339	44	39	332	224	21	14	14	8	9	1,673

TABLE NO. 3
Showing the social state of each nationality, etc. of those aided with fuel, provisions, etc.

Nativity and Color	Married Couples	Widows	Deserted Wives	Husbands in prison	Single	Widows	Husbands Insane	Totals
United States	186	149	68	7	1	12	8	431
Poland	190	75	35	7	3	2	5	317
Germany	108	97	29	1	3	7	7	252
Canada	62	67	55	3	1	3	2	193
Ireland,	40	71	16	2		9	1	139
Colored	49	34	11	İ			2	96
West Prussia	45	27	9	1			ļ	82
England	30	26	11	 •••••	1	2	1	71
Russia	21	11	10	! •••	1		2	45
Scotland	6	6	2	 		 .		14
Italy	4	1	1	,			1	7
Switzerland	1	3	1	 				5
Holland	3	1	1	 	.			5
France	2	1		ļ		-1	1	5
Bohemia		3			j			3
Nova Scotia	2			 	ļ		ļ	2
Austria	1	1						2
Belgium		1					ļ .	1
West India		1					' 	1
Norway	1						·	1
Denmark		1						1
Total	751	576	249	21	10	36	30	1,673

TABLE No. 4

Showing the nativity and occupation of those aided with fuel, provisions, etc.

OCCUPATION	United States	Poland	Germany	Canada	Ireland	Colored	West Prussia	England	Russia	Scotland	Italy	Switzerland	Holland	France	Bohemia	Nova Scotia	Austria	Belgium	West India	Norway	Denmark	Total
Washing	200	106	109	102	79	45	34	33	5	6	1	2	2	3	3				1		1	732
Laborer	127	201	90	43	37	43	37	18	7	4	6	1	1	1		1	1		••	1		619
Carpenter	11	1	9	4	1			4			ļ					1						31
Painter	9	1	2	4				1			···		1	1	i		٠.					19
Moulder	5	1	2		ļ		3														١	11
Tailor	1		3	ļ			1							. !	٠						· '	5
Sewing	31	7	12	20	10	1	1	6	1	1				!							'	90
Knitting	3		10	4	3		5	1				1		İ			1					28
Peddler	4		3	1	5			1	31	2		1	1							٠.	! !	49
Lawyer	1				ļ									!						٠.	. !	1
Mason	3		 -		ļ	ļ	1			1												5
Cook	1			3	1	1		1												٠.	••	7
Shoemaker	3		1					2				• • •	l'				• •	٠.,				6
Teamster	8	i	2	3	1	! 	. .										٠.,					14
Machinist	3	ļ	 .	1	ļ									.								4
Butcher	3			ļ						 .							• •					3
Cigarmaker	4	ļ	2				••••	1					٠٠,			• •						7

TABLE NO. 4-CONTINUED.

OCCUPATION	United States	Poland	Germany	Canada	Ireland	Colored	West Prussia	England	Russia	Scotland	Italy	Switzerland	Holland	France	Nova Scotia	Austria	Belgium	West India	Norway	Denmark	Total
Clerk	2		1	2				2						.	. .						7
Printer	2	İ													2
Doctor	2	ļ	ļ.,	1			ļ	1							.;		Ì				4
Blacksmith	2		1	ļ	ļ	·								.	• , • .		١				3
Matchmaker	1	1		ļ						ļ				٠.,٠	.	.	ļ				1
Baker	1	·	1	1		١	ļ							.	١.,	.					3
Nurse	1		1	1	2	ļ	 .		-•••		١			1.	· į -	.	1				6
Sailor	1	 		2	 -	,	ļ				ļ		'					3
Engineer	1	·		ļ	ļ		ļ						٠.,	٠		. j	ļ			j	1
Barber	1	,		1.		2	ļ				j			ļ.,				4
Bookbinder	ļ		1			 		, 			١			- -	-	.¦	· 		١		1
Teacher				ļ		ļ . .	ļ 		1				٠٠,	 ļ.	ļ.,	١	١				1
Waiter			1	ı		4	ļ				<u>ا</u>			¦.	. .	.	ļ				5
Tinsmith	ļ	· · ·	1	ļ		.				ļ			;	.	-	.	 ··			$ \cdot $	1
Total	431	317	252	193	139	96	82	71	45	14	7	_ 5	5	5	3 2	- 2 2	1	1	1	1	1,673

TABLE No. 5

Showing the number of children over six years of age attending school, the number employed and the number neither at school nor employed.

Nativity and Color.	Children over six years in families.	At School	Employed	Not employed nor at school
United States	569	357	67	145
Poland	545	332	68	145
Germany	366	217	65	84
Canada	312	186	45	81
Ireland	127	63	23	41
Colored	123	65	7	51
West Prussia	138	74	25	39
England	114	62	16	36
Russia	82	51	14	17
Scotland	22	10	5	7
Italy .	16	11	1	4
Switzerland	5	2	2	1
Holland	6	. 5	······	1
France	6	5	1	
Bohemia	12	7	1	4
Nova Scotia	1	ļ	·	1
Austria	3	2		1
Belgium	1	1	i	
West India.	1	1	ļ	
Norway	5	2	2	1
Denmark	3		2	1
Total	2,457	1,453	344	660

TABLE No. 6

Showing the nativity and number of males, females, adults, children and still-born buried at the expense of the city.

	ı 1							
NATIVITY AND COLOR	Males	Females	Totals	Adults	Children	Still-born	Totals	Ground only
United States	70	40	110	31	79	47	157	103
Germany	8	6 ,	14	13	1		14	l
Colored	5	6	11	4	7		11	ļ
Poland	6	3	9	7	2		9	
Canada	4	2	6	5	1		6	
Ireland	5	1	6	6	 	'	6	
Italy	2	· · · · · · · · · · · · · · · · · · ·	2	1	1	!	2	ļ
Scotland	! 	1	1	1	1 		1	
Bohemia	, 1		1	1	····	;	1	
Total	101	59	160	69	91	47	207	103

TABLE No. 7.

Showing the number of each nationality and color sent to the Count Nativity and Color.	۱y		ouse : No.
United States		٠	217
Germany			. 83
Ireland			. 8 0
Canada			. 40
England			34
Colored			. 22
Poland			20
Scotland			. 8
France			4
Switzerland		.	. 4
Russia			4
Belgium			. 3
Italy			. 3
Bohemia			. 2
Alsace	• •		I
Total			525
Males		<i>.</i>	417
Females			108
Total			525

TABLE No. 8.

Showing	g th	le	so	cia	ıl	sta	ate	ot	1	the	ose	•	sent	to)	the	• (Co	uı	ıty	, 1	Ho	ou	se	:					
Married					٠.				:					. . .												 	٠.			62
Single		٠.		٠.							٠.				٠.											 				220
Widowers .																										 				165
Widows																	٠.						٠.			 				59
Deserted wi																														
Total																													-	~
lotal .					٠.				•			٠.			٠		٠.				•	٠.	٠.		•	 ٠.	٠.	• • •	• •	52

TABLE NO. 9.

	Shov	ving	th	e	ca	us	e	ot	P	OO'	ve	rt	y	0	t	t I	10:	ie.	S	en	t	tc)	th	e	C	οι	ın	tу	ł	10	ou	S	::			
Sick	cness					٠.	٠.																													 	445
Old	age					٠.	٠.											٠.			٠.							٠.	٠.			٠.				 	45
Crig	pled						٠.		•													٠.				٠.										 	19
Des	erted	wiv	es							٠.																						٠.				 	10
Blin	ıd			٠.	٠.		٠.				٠.						٠.						٠.				٠.								٠.	 	6
																											٠									-	
	Tota	1						٠.			٠.																		٠.							 	525

WORK RECORD.

Number of orders issued to cut wood	418
Number not presented	
Number of cords of wood cut	
Number of days worked piling wood, etc	260
INVESTIGATIONS.	
Number of investigations and re-investigations made for relief 50	679
Number of investigations made for potato patches	241

CITY PHYSICIANS' REPORT.

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DETROIT, July 1st, 1901.

To the Honorable the Board of Poor Commissioners:

Gentlemen—The following is my report for the year ending June 30, 1901.

Respectfully submitted,

W. J. MERDIAN,
City Physician.

			1		_					
DISEASE	Anæmia	Asthma	Albuminuria	Ambustia -	Abscess	Alcoholism	Apthons Sore Mouth	Abcess of Foot	Abcess of Axilla	Abcess Cervical
Number of cases	6	17	. 1	7	2	. 8	2	1	1	2
Number of visits	14	40	ļ	2		3	3	4	2	3
Number of office advices	18	96	13	6	, 2	2	1		5	4
Number of Night Calls answered		٠	١	1		2			• • • •	• • • •
Number of Cases sent to Hospital		ļ		1			. .	.		• • • •
Number af Insane Cases examined		· 		· · · · ·						
Number of County House Cases examined		3	١	· · • • • •		1				
Number of Cases recovered	5	6		6	2	7	2	1	1	2
Number improved		ļ			,					• • • •
Number of Cases not improved	••	!	¦	ļ					••	• • • •
Number not found		ı	'	ļ				••••		
Number of Cases not requiring treatment	• • • •		• • • •							••••
Number of Cases died		ļ	••							
Number still under treatment	• • • •	1	1				••		••••	
Number of Vaccinations		i	• • • •	····				· • •		
Number of Cases seen at Hospital		l		i	• • • •			••••		
Number of Cases referred to other City Physicians	1	7	• • • •					••••		••••

Biliousness	Bubo	Bite, Insect	Bronchitis	Bite, Dog	Breast, Cancer of	Backache	Cough	Cholera Morbus	Cramps	Confinement	Cholera Infantum	Conjunctivitis	Cystitis	Constipation	Coryza	Clavicle, fracture of	Convulsions	Croup Membraneous	Debility	Dyspepsia	Diarrhœa	Delirium Tremens
5	1	2	65	2	1	6	195	14	15	17	23	5	8	49	1	2	3	1	12	47	33	4
	2		83	ļ	16		58	14	9	29	22	1	2	14	• • • •	3	3	3	11	19	31	3
5	' · · · ·	2	61	2	1	6	203	5	7		9	8	47	46	1	6		3	15	50	24	4
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DISEASE	Dropay	Dentition	Dysmenorrhea	Diphtheria	Dysentery	Epilepsy	Eye, Disease of	Eczema	Erysipelas	Eruption, Simple
Number of cases	7	30	3	6	2	5	1	8	3	3
Number of visits	47	38	4	29	. 4	1	5	5	1	4
Number of office advices	30	17	2	ļ	1	2		14	4	1
Number of Night Calls answered		2	. 1	ļ	!	3	ļ		1	ļ
Number of Cases sent to Hospital	. 1	; 		ļ	!	1				
Number of Insane Cases examined		١	,	, 	[· · · ·	ļ			• • • •	
Number of County House Cases examined	1	ļ	١							ŀ
Number of Cases recovered		27	3	4	2		1	6	1	3
Number improved	l						 			
Number of Cases not improved	 .	.	١				ļ			٠
Number not found	, 	ļ	:. .		` ; - • •	ļ			1	1
Number of Cases not requiring treatment		. .	,		ļ 		 			
Number of Cases died	1			. .					. 	
Number still under treatment	2		i,		 					•
Number of Vaccinations										
Number of Cases seen at Hospital	 						 		'	
Number of Cases referred to other City Physicians	2	3		2	l .	4	 	2	2	

Emesis	Epistaxis	Fever, Typhoid	Fever, Scarlet	Felon	Femur, Fractuce of	Fever, Simple	Foreign Body in Eye	Furunculus	Galactorrhea	Goitre	Hæmorrhoids	Headache	Hernia	Hæmorrhage of Utterus	Herpes	Heart, Disease of	Hysteria	Hip Joint	Hypochondriasis	Hæmoptysis	Humerus, fracture of	Injury
2	1	6	11	1	4	4	1	1	1	1	2	39	4	3	4	5	4	1	1	1	1	65
		61	70		3	10	1			3	3	11	١	2	2	5	2				1	38
2	1		i. .	1	1	1	1	2	1		5	40	4	3	3	10		1	3			42
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DISEASE	Inanition	Insane	Jaundice	Leg, Ulcer of	La Grippe	Laryngitis	Leucorrhæa	Malaria	Melancholia	Miscarriage
Number of cases	. 1	8	3	5	124	1	2	18	1	5
Number of visits.	5	8	6	24	115	2	! .	47	12	14
Number of office advices		1	12	60	52	, j	, 10	31	 .	
Number of Night Calls answered		2	1		4	·		2	ļ 	1
Number of Cases sent to Hospital		3						١	ļ	1
Number of Insane Cases examined	l	4				ļ	· · · · ·		ļ	
Number of County House Cases examined		ļ	ļ			•••				
Number of Cases recovered	1		2	4	124	1	1	14	 	2
Number improved] {		 		 	.			ļ
Number of Cases not improved	ļ	• • • • •	ł	1					ļ	
Number not found	; ;	l	l							
Number of Cases not requiring treatment	l	 		: 				ļ		
Number of Cases died		 .							1	ļ
Number still under treatment	١		١				1	1		J
Number of Vaccinations	,		:				[']			ļ
Number of Cases seen at Hospital	! !							l		· ••••
Number of Cases referred to other City Physicians		1	1					3		2

Measles	Menopause	Metrorrhagia	Menses Irregular	Migraine	Nipples Cracked	No Treatment Required	Not Found	Neuralgia	Nephritis	Neurasthenia	Ovarian	Orchitis	Otorrhœa	Pneumonia	Pertussis	Phthisis	Poisoning, Opium	Pregnancy	Pleurisy	Paralysis	Pharyngitis	Parotitiis
6	2	10	10	3	1	7	13	7	2	2	3	2	3	15	20	15	5	4	27	4	11	6
13		11	18	2		5	10	3			1	7	3	132	34	100		6	27	19	8	6
1	18	10	9	1	4	! !····		7	3	5	4		5		23	26		4	22	14	16	3
1		1	3			2	3		1					2		2	5	 .	1		1	1
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5	1	9	7	3	1			7	1	1		2	3	8	17		4	4	24		11	5
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···							.			
DISEASE	Poisoning	Pregnancy, Vomiting of	Poisoning by gasoline	Rheumatism	Rape	Stomach, Cancer of	Stomatitis	Senillty	Scrofula	Spine, Curvature of
Number of cases.	! : 1	١,	١,	 125	4	. 1	; . 11	13	1	
Number of visits.	!	•	2	75	4	3	. 4	39	. 4	-
Number of office advices.	ļ	1	_	120	'	1	14	6		
Number of Night Calls answered	1	1	ļ	2		1	1			
Number of Cases sent to Hospital	1	1		j	ľ	••••				
•		i				•	r'		i .	•••
Number of Insane Cases examined	• • • •				i · ·	 I	ļ	_		· ·
Number of County House Cases examined	 			1				5	٠	٠
Number of Cases recovered	1	1	1	117	4	٠	11			
Number improved	ļ	ì		• • •	• • • •	····	۱۰	2	••••	٠
Number of Cases not improved		····	. .				٠.	٠.		
Number not found						i				
Number of Cases not requiring treatment	: 	ļ		 		,				
Number of Cases died	!	ļ	ļ		 .	1		•	1	
Number still under treutment	ļ	1		2				1		1
Number of Vaccinations		• • • • •		 .		١	l			
Number of Cases seen at Hospital	ļ.	ļ	١	 			!		ļ	
Number of Cases referred to other City Physicians			l	1 5		1	 	5	l	
	٠. ٔ		ŀ		ı	1_	l	l	l	

Totals	Worms .	Vaccination	Vertigo	Varicella	Varicose Veins	Ulcer	Urine, Suppression of	Uterus, Prolapsus of	Uterus, Cancer of	Uterus, laceration of	Urithritis	Urine, Incontinence of	Tonsills, Hyperthropy of	Torti Collis	Tonsillitis	Scapula, fracture of	Sun Stroke	Stricture Urethral	Syphilis	Scables	Septicæmia
1,614	7	230	11	9	5	1	2	2	1	1	1	3	2	3	39	1	1	1	2	1,	1
1,889	1	171	5	13	3		1		4		1	2	2		57		3				6
1,502	10	59	15	6	18	2	1	2		3		1	7	9	24		,	1	1	4	
79		ļ		: !••••							 .				١.	1			1	• • • •	
26		ļ							. .						••••	1	 	1			
4		ļ	l I			 .					! !								
22	 ••••	: • • • •		 .	1										•		ļ., .				
1,147	7		11	8			2					2	1	3	38					1	1
6	: 												1							1	
2													Ī,								
13																·					
7		٠,	••••		••••	••••		• • •	•		••••	••••	• • • •								
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230		230				••••		•••	• • • •	••••		· • • ·	• • •		٠		••••	••••		••••	• • • •
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DETROIT, July 6th, 1901.

To the Honorable the Board of Poor Commissioners:

GENTLEMEN—The following is my report for the year ending June 30, 1901.

Respectfully submitted,

JAMES J. MURRAY,
City Physician.

-	ł	l		•		[:	!		ı		1	-
DISEASE	Albuminurea	Anæmia	Alcoholism	Asthma	Apthæ	Amenorrhua	Abcess	Anasarca	Adenitis	Anorexia	Bronchitis	Burn	Billiousness
Number of cases	1	7	13	29	5	10	10	9	10	1	130	3	1
Number of visits	8	4	7	12	3	10	. 11	7	3		64		
Number of office advices	1	13	7	28	2	0	5	9	7	1	99	4	2
Number of Night Calls answered			4	2	ļ <i>.</i>		1		1	٠	1		
Number of Cases sent to Hospital			3	ļ			1			١		٠,	
Number of Insane Cases examined			١.	!	l			١			 .		
Number of County House Cases examined		i		2		1		1 .	1	٠			
Number of Cases recovered		2	10	3	5	2	•	2	7	1	122	3	1
Number improved		!			ļ			į	٠			¦,	
Number of Cases not improved		١.		i					١	٠	· • •		
Number not found									,			· 	
Number of ('ases not requiring treatment		, , • • • •				1	• • • • •	ļ	٠		l	!	
Number of Cases died	١				ļ !-								
Number still under treatment	1	, 5		21		5	٠	6		١.	8		• • • •
Number of Vaccinations	ļ	ļ					,		,			ļ	
Number of Cases seen at Hospital Number of Cases referrer to other City Physicians				3	···	1	·	1	2		 		· · · · · · · · · · · · · · · · · · ·

Blepharitis Marg	Billiary Cahali	Brain Concussion	Colitis	Cough	Cellulitis	Cervical Laceration	Cephalgia	Chancre	Chorea	Cold	Conjunctivitis	Colic Menstrual	Colic Intestinal	Cereb.al Congestion	Cholera Infantum	Cholera Morbus	Constipation	Cardiac Disease	Cystitis	Chancroid	Confinement	Croup
1	2	2	3	36	+	3	58	2	2	26	2	9	37	2	1	3	17	3	6	1	25	17
	8		6	4	5	10	6	1	1	2	1	8	29		3	7		2	2	2	48	21
1	, ,		2	35	5	4	56	1	3	33	1	3	16	4	· • • •		21	3	6	2	2	9
	'	2			1			ļ ,				1	8								7	1
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1		l	3	36	; 3	1	55			26	2	9	37	2		2	44		5	1	21	17
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DISEASE	Croyza	Carcinoma	Cinchonism	Convulsions	Diphtheria	Dyspepsia	Diarrhœa	Dropsy	Dog Bite	Debility	Delirium Tremens	Decayed Teeth	Dementia
Number of cases	15	3	4	3	17	24	25	1	2	15	2	1	13
Number of visits	4	7	2	4	69	4	2	2		23	2		16
Number of office advices	13		5	1		32	24		2	8		1 1	5
Number of Night Calls answered	. .				2					1	2	,	4
Number of Cases sent to Hospital	ļ. .	ļ. .	١				. .	ļ. .	¦. .		1	····	2
Number of Insane Cases examined								١.		ļ		١.	
Number of County House Cases examined		 	ļ					l	ļ				2
Number of Cases recovered	15		l	3	12	20	25		1	8		1	5
Number improved		l	'					ļ.		l	ļ		ļ
Number of Cases not improved						 					 .		l
Number not found		·	1			ļ., .						l	l
Number of Cases not requiring treatment		l		١	l	ĺ	l		l	1	١	! 	
Number of Cases died		1		ļ	ļ								
Number still under treatment	1	. 2		1	2	4		1	1	5	l		 3
Number of Vaccinations		 			I			; -		·	'		
Number of Cases seen at Hospital	ļ	ļ. .	1									••••	
Number of Cases referred to other City Physicians			'' 4	ļ	3				····	2	1		1

Dennatitis	Dysentery	Dentition	Dislocation, Shoulder	Eczema	Enteritis	Emesis	Entero-Colitis	Epilepsy	Erysipelas	Ephithelioma	Elamination	Epilepsy	Foecal Impaction	Furunculosis	Fracture, Claoicle	Fracture, Radius	Fever, Simple	Fracture, Leg	Floating Kidney	Felon	Frost Bite	Fistula
1	1	5	1	9	14	4	3	1	4	1	3	5	4	4	4	1	21	1	1	1	1	1
1		4	1	3	17		2		13		1	1	6	1	7	8	29	1	.			
1	1	1	1	12	11	6	2	1	3	1	2	7	1	4		1	5		1	1	1	1
			1					; · · · ·		· • • •			1	٠	2		1	1				
			1					١.		1			1		3	٠		1				
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			١.				<i></i>	١				· 		ļ				¦ 	١			
	1	5	١	6	13	4	3	ļ	3				3	3	1		19		· · · · · ·	1	1	
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DISEASE	Fatty Degeneration of Heart	Gastro-Enteritis	Goiter	Gastralgia	Gonorrhea	Gastritis	Hæmoptysis .	Hæmorrhoids	Heart, Valvular Disease	Hepatized Lufig	Hernia	Hernia	Hysteria
Number of cases	1	9	3	4	4	5	5	7	2	2	8	4	4
Number of visits	3	25	1	2	1	10	4	1	9	ļ	3	1	3
Number of office advices	1	5	3	1	9	2	1	10	1	2	6	3	
Number of Night Cails answered		2		1				 	1		2		2
Number of Cases sent to Hospital.	 		ļ			١.	١	١.	1				1
Number of Insane Cases examined	١.	j		J	• • •	 -	• • • •	:		ļ		١	
Number of County House Cases examined	١			 				1		ļ <i>.</i>	1		
Number of Cases recovered	١	4		4	2	2	5	1				1	3
Number improved		İ.			· • • • •		·						
Number of Cases not improved		1	'	 .				!••••				! 	
Number not found	!			! }••••				; ,	ļ	; •••			
Number of Cases not requiring treatment	١		! :••••	ļ. 		ļ			j	 			
Number of Cases died	· !	3	· 			ļ	٠.	, , ,	١	ļ			·
Number still under treatment	1	¦	3	 	2	3	٠	4	ļ	2	4	2	
Number of Vaccinations			٠		١								
Number of Cases seen at Hospital	 					 	 	1	1		3	1	

Insane	Injury	Indigestion	Impetago, Contagiosa	Inanition	Jaundice	Leucorrhæa	Lumbago	Laryngitis	Laceration, Cervical	Locomotor Ataxia	La Grippe	Morphinism	Meningitis	Mental	Mastoid Disease	Mal-Assimilation	Measles	Mucous Colitis	Miscarriage	Malaria Fever	Menorrhagia	Myalgia
5	111	72	10	3	5	1	43	20	1	1	93	3	2	. 1	1	1	3	1	10	7	4	3
8	72	50	13	6	i		7	4		1	88	3	7	1	1	1	4		16	29	5	
1	75	45	4		9	1	43	19	2		47		1		: .	1	2	3	2	6	2	3
1	13	2							ļ		2	3	ļ		1		ļ		3			
	3				٠.						ļ	ļ			1				3			
5					ļ			····	ļ	ļ							¦					
	i				•••		•••			ļ										• • • •	····	• • • •
• • •	100	68	9	1	3	1	43	20			92					1	3	1 1	5	6	4	3
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DISEASE .	Menopause	Migraine	Mastitis	Nocturnal Sweats	Nervous	Not Requiring Treat'mt	Not Found	Necrosis Bone	Neuralgia	Neurasthenia	Neavitis	Neavitis	Nephritis
Number of cases	1	5	2	3	1	40	21	1	16	5	2	14	4
Number of visits	ļ		6			31	21	l	12	13		11	6
Number of office advices	2	6	ļ	3	1	9		1	9	1	3	10	14
Number of Night Calls answered		٠	٠		,	7	2		2	ļ		١	ļ
Number of Cases sent to Hospital	1	١.		` 		·		1	1			ļ	١
Number of Insane Cases examined	İ,			٠	·	ļ						i	,
Number of County House Cases examined	i ,			, ••••	} }	ļ		'		. .		ļ	١.,
Number of Cases-recovered		. 5	2	 	İ., ,	١		ļ	14	<u> </u>	1	6	ļ
Number improved	, 	ļ	١				ļ	 .	ļ		 .	ļ	ļ
Number of Cases not improved	! .			 .		ļ		¦ 		٠		ļ	ļ
Number not found		i 	i				21			, , • • • •		i	
Number of Cases not requiring treatment		,	ļ . .	: 	l	40	١.						
Number of Cases died			ļ		 	ļ	••••		! :		 		ļ
Number still under treatment		١		2	1	l !		٠		5	1	7	, 4
Number of Vaccinations	ļ		ļ	 		١		į	l	! }	 		ļ
Number of Cases seen at Hospital Number of Cases referred to other City Physicians	 		 	1	 	 	 	 	1	 		1	ļ

Olitis Media	Opthalmia	Ovaritis	Oedema	Orchitis	Otorrhea	Otalgia	Paralysis	Prolapse-Uterus	Procedentia-Uteri	Palpitation, Heart	Polyurea	Puthysis Pulmonalis	Peurperal Septicaemia	Purtussis	Pyo-Salpinx	Pregnacy	Poi oning	Post-Partum	Pleuritis	Pneumonia	Pharyngitis	Parotidtitis
3	7	2	3	3	3	2	6	1	1	5	2	7	2	4	1	8	3	6	19	16	5	4
••••	3	4	1	4	2	1	11			2	10	12	8	11	2	7	4	9	17	92	3	4
4	6	1	2	3	1	1	1	1	2	5	3	1		3		3		٠.	12	7	3	
	••••	1					1								• • •	1	¦		1	1		! !
	1						1		• • • •		• • • •	1	2		1		2		1	4		
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2	3	1	3	3	3	2	••			4	1			2	••••	2	. 1	6	18	9	5	4
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DISEASE	Quinsy	Rheumatism	Retentia, Urine	Renal	Rhinitis	Senility	Sciatica	Syphilis	Septicemia	Sprain	Spinal Irritation	Scarlet Fever	Stomatitis	Synovitis	Scalp Wound
Number of cases	1	119	1	1	2	51	8	14	10	3	6	20	1	1	1
Number of visits		90	1	2	ļ	42	4	9	4		49	112	3	. 2	1
Number of office advices	1	101			2	24	6	15	10	4	5	 .	2	. 	
Number of Night Calls answered.	i , • • • •	2			ļ	1		1			1	1			
Number of Cases sent to Hospital.		1.4	1	1		2		1	1	·	l . • • • •		; 		1
Number of Insane Cases examined Number of County House Cases examined			·		ا 	2		1	 	i 		••••			
Number of Cases recovered	1	69			, 2		U		2	3		16	. 1		.
Number improved					•		· 			١	 		·		;
Number of Cases not improved		ļ		!	ļ,	 	!	١	١	1				. .	!
Number not found Number of Cases not requiring treatment	·			···	 	5	·	! 		ļ		·	·	 	
Number of Cases died		į			٠ ،			ļ	ļ	i	ļ				
Number still under treatment	١	36	ļ			33	2	4	4	٠	5	. 2	٠	1	
Number of Vaccinations		i 1 •••	٠	ا . 	ı			١	ļ				·		
Number of Cases seen at Hospital Number of Cases referred to other City physecians			·	ļ) n		8	3	ļ	1	2	ļ	 • •	

Total	Wound	Varicella	Varicocele	Vaccinations	Valvular, Disease Heart	Varicose Veins	Uterine, Prolapse	Uterine Colic	Urethritis	Urticaria	Uterine, Fibroma	Unclassified	Ulcer	Tænia Solinum	'fuberculosis, General	Thrombus	Torti-Colis	Toothache	Typhoid Fever	Tonsilitis	Stricture, Urethral
1,862	1	3	7	57	3	7	3	9	1	2	1	20	28	1	5	1	2	1	15	61	1
1,776	2	5	11		1	3	2	7	1		1	8	4		8				93	63	1
1,311	2	 .	1	57	2	11	1	3		2		15	38	1	4	3	2	1	1	20	
101											1	ļ	1								••••
59																٠	• • • •		3		
5		. .													 						
20	. .				1								2								
1,253		3	6				1	9	1	1		15	10	1		1	2	1	6	61	
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1													· • • •								
21		'																			
59												4									
10														I							
282	1		1		2	6	2					1	14		4				5		1
57				57								ļ .	l					<i></i>	'		
													 .								
95						1				1	1	ļ	2		1				1		

DETROIT, MICH., July 2d, 1901.

To the Honorable the Board of Foor Commissioners:

GENTLEMEN—The following is my report for the year ending June 30th, 1901.

Respectfully submitted,

H. R. VARNEY.

City Physician.

DISEASE	Ascities	Angina	Abortion	Abscess	Anæmia	Asthma	Alcoholism	Acuæ	Ataxia
Number of cases	1	2	4	16	9	12	26	3	1
Number of visits	1	2	11	18	6	. 5	27		
Number of office advices	,		1	10	12	7	9	3	1
Number of Night Calls answered.	1	2	1			·	1	 	
Number of Cases sent to Hospital	ļ		ļ	3		1	4	ļ	
Number af Insane Cases examined			'			ļ			
Number of County House Cases examined	ļ ,	 	 		1	2	4	١	
Number of Cases recovered		2	1	12	3	7	18	2	1
Number improved	ļ. .		١	1	1			l,	
Number of Cases not improved	i			ļ	. <u>.</u>			ļ ļ	
Number not found	. .			J	ļ	· 		, ,,	
Number of Cases not requiring treatment			١					 	
Number of Cases died			' . 	i ••••					
Number still under treatment				١	4	2		1)	
Number of Vaccinations	 							_.	
Number of Cases seen at Hospital							٠.	ļ'	
Number of Cases referred to other City Physicians	1		3						

Appendicitis	Bubo	Bronchitis	Biliousness	Blind	Burn	Constipation	Cystitis	Conjunctivitis	Cramps	Confinement	Cataract	Carbuncle	Chancre	Curettement	Croup	Chancroids	Debility	Diarrhœa	Dementia	Dog Bite	Dropsy	Dematitis
3	10	234	16	1	2	19	14	6	1	21	1	1	2	1	1	1	118	50	4	2	5	1
13	4	122	13	٠	1	2	5	5	1	53			. • • • •		1		43	50	7	1	3	1
2	14	206	7	1	1	15	14	2		3	1	1	2	1		1	101	22		1	2	1
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1	1	2			ı	! 		2		6	1	. .	1	1			3	2	3			
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	4	8	 .	1	1		1	1		1		 .	į			1	32	1			2	<i>.</i>
2	2	213	13			19	12	3		9		1			1		72	41		1	1	1
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DISEASE	Dyspepsia	Dismenorrhea	Diphtheria	Eczema	Erythema	Epileptic	Erysipelas	Earache	Elephantiasis
Number of cases	2	1	1	26	2	9	12	3	1
Number of visits			7	2	2	5	13	3	1
Number of office advices	2	1		25	2	10	4	1	
Number of Night Calls answered						1	<i>.</i>		
Number of Cases sent to Hospital		.					1	١	
Number of Insane Cases examined				. .				ļ	
Number of County House Cases examined				1		1	2		
Number of Cases recovered	2	1	1	25	2	5	8	3	
Number improved					ļ	1	<i>.</i> .		
Number of Cases not improved				. .		١			
Number not found									
Number of Cases not requiring treatment			, .	. .					
Number of Cases died						 	1		
Number still under treatment	,					2			.
Number of Vaccinations		. .							
Number of Cases seen at Hospital.	!								
Number of Cases referred to other City Physicians									1

Enucleation	Epithelioma	Enteritis	Furuncle	Fistula	Fever	Fracture	Frozen	Floating Kidney	Gastritis	Gonorrhæa	Gastralgia	La Grippe	Gall Stones	Hæmorrhoids	Heart Disease	Hepatitis	Hernia	Hydrocele	Insane	Inversion	Injury	Impetigo
3	2	1	3	7	2	11	1	1	69	3	2	51	3	14	13	2	6	1	15	2	73	20
••••	3	1	1	1	2	7		1	40		3	65	4	5	13	1	1		11	9	51	7
3	2	1	5	6		4	1		59	3	1	18		15	10	2	5	1	4	1	59	18
••	· • • •				2	1			2			1							1		11	
3	2	1	····	3		4		1	7		1	.	2	2			1	1			8	
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••••				2		6	1		1	••••		1		3		ļ				1	8	•••
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DISEASE	Jaundice	Laryngitis	Leucorrhæa	Lumbago	Leutigo	Metorrhagia	Measies	Miscarriage	Morphinism
Number of cases	2	8	2	1	1	14	9	9	5
Number of visits	1	2				14	8	35	8
Number of office advices	2	7	2	1	-1	3	2	4	2
Number of Night Calls answered				j		1	İ	<i>.</i>	1
Number of Cases sent to Hospital		1	! 	·		3	 	3	
Number of Insane Cases examined			• • • • •				ļ		
Number of County House Cases examined			١		ļ. . .			١.	
Number of Cases recovered	2	7	2	1	1	9	9	4	3
Number improved			l		 .	١.,			
Number of Cases not improved			l	 	ļ				
Number not found			 .						l
Number of Cases not requiring treatment	ļ		ļ	l					
Number of Cases died		Ì	ļ		 	ļ			l
Number still under treatment			ļ					1	1
Number of Vaccinations		ļ	 				·	 	
Number of Cases seen at Hospital						İ	l		
Number of Cases referred to other City Physicians	l	l	l		Ì	2	l	1	1

Malaria	Metritis	Migraine	Neuralgia	Neuritis	Not Requiring Treat'mt	Not Found	Necrosis	Nephritis	Orchitis	Ovaritis	Obstruction	Poison	Paralysis	Phthisis	Pharyngitis	Pneumonia	Pregnacy	Peritonsilitis	Pleurisy	Pertussis	Pediculæ	Psoriasis
3	3	1	22	39	60	6	4	1	7	9	1	4	11	22	4	10	2	1	7	2	1	6
	3	1	16	16	61	6	1	1	4	7	1	4	16	36	1	13	3	2	2	1	,	,-
3	-		16	32	2		4		4	7	1		5	30	3	1			6	1	1	6
	1	. · · ·	1	3	4				2	1		2		1	1						ļ. . .	
1	2		1	1			1	1	1	4	1	1	2	3	 	5	2	1	2			· · · •
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DISEASE	Phlebitis	Prostatitis	Peritonitis	Rheumatism	Rupture	Retention	Rape	Syphilis	Stomatitis	Sprain
Number of cases	1	4	2	131	11	1	1	37	4	19
Number of visits	1	3	2	66		1	1	13	3	9
Number of office advices		3		107	11			55	3	12
Number of Night Calls answered			. .	2	ļ	1				1
Number of Cases sent to Hospital	1	ļ	1	12				3		
Number of Insane Cases examined		, 	ļ		ļ		 			
Number of County House Cases examined			i	29	3			2		2
Number of Cases recovered	ļ 	4	. .	81	4		1	6	3	14
Number improved	ļ.,	ļ	! . •••	1	2			5	1	
Number of Cases not improved			ļ				ļ	1	İ	
Number not found	 	' 							ļ .	ļ
Number of Cases not requiring treatment	ļ	·		ļ					<u>.</u>	
Number of Cases died	ļ	 .	· · · · · ·							
Number still under treutment			1	6	2	 		17		2
Number of Vaccinations		 			 .				٠	
Number of Cases seen at Hospital	ļ	·	••••						l	
Number of Cases referred to other City Physicians	1	1		1		1	 	3	i	1

Totals			Worms	Vericella	Vericosity	Vaccination	Ulcer	Urticaria	Tuberculosis	Tenia Circenata	Титог	Tetanus	Typhoid	Tonsillitis	Salpıngitis	Stricture	Scarlet Fever	Strabismus	Septicamia	Scabies
1,647	• • • •	 	3	4	5	78	25	2	1	2	4	1	14	29	2	2	19	2	10	6
1,249		 	1	3	2		9	<i>.</i>	1		1	3	36	30	2	1	139		5	
1,187		 	2	3	.4	78	19	2		2	3		6	9	1	1	1	2	7	6
75		 	1		1					••••			2	4.						
143		 	•••	1			ļ			• • • •	3		8	1	2	1	1	1	3	
15						ļ														
150	l	 			• • • •		8			1		 .								• • • • •
970		 ļ	3	3	2		6	2		1			1	23	. .	1	7	1	3	6
33		 			1		3													••••
10		 											1						1	••••
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61		 			[']	} }														
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105		 				l 	8						2	1			11		1	
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72		 			2						1	1	2	4					2	

DETROIT, MICH., July 1st, 1901.

To the Honorable the Board of Poor Commissioners:

GENTLEMEN—The following is my report for the year ending June 30th, 1901.

Respectfully submitted,

W. K. KWIECINSKI, M. D,
City Physician.

DISEASE	Asthma	Abscess	Anæmia	Appendicitis	Alcoholism	Bronchitis
Number of cases	23	37	13	2	8	36
Number of visits.	16	31	20	2	3	71
Number of office advices	15	57	14		6	71
Number of Night Calls answered	2	3			2	2
Number of Cases sent to Hospital	2	3		2	2	
Number of Insane Cases examined						
Number of County House Cases examined	3					8
Number of Cases recovered	15	30	12		. 6	23
Number improved	1				·	1
Number of Cases not improved	1	1	ļ			
Number not found					١	
Number of Cases not requiring treatment		¦				
Number of Cases died	1					2
Number still under treatment.		1	1			
Number of Vaccinations	ļ					
Number of Cases seen at Hospital	ļ					
Number of Cases referred to other City Physicians	ļ	2		;		2

Burns	Constipation	Coughs	Colds	Convulsions	Cystitis	Confinement	Colic	Cocaine Habit	Cancer	Catarrh	Chancre	Corns	Cessation of Menses	Chills	Cramps	Dislocation	Dropsy	Dyspepsia	Diarrhœa	Discharge	Diphtheria	Delirium Tremens
7	34	373	88	5	19	20	24	1	6	6	1	2	7	. 1	1	1	10	76	114	4	7	1
14	33	319	71	17	8	54	35		12		ļ	1	1	 	7	2	14	35	134	3	14	1
4	33	242	60	1	21	2	7	1	3	10	4	2	6	1	2		2	89	63	13	1	
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DISEASE	Deformity	Dog Bite	Dysentery	Disease of Brain	Disease of Skin	Disease of Eye
Number of cases.	4	1	1	9	48	8
Number of visits	5	3		13	31	2
Number of office advices	2	4	3	6	58	6
Number of Night Calls answered				1		
Number of Cases sent to Hospital.	ļ			4		2
Number of Insane Cases examined.						ļ
Number of County House Cases examined	 .		1		1	1
Number of Cases recovered	4	1		5	44	5
Number improved					2	
Number of Cases not improved	ļ					
Number not found						ļ
Number of Cases not requiring treatment	 					
Number of Cases died						
Number still under treatment		ļ			1	
Number of Vaccinations	 					
Number of Cases seen at Hospitai	ļ					
Number of Cases referred to other City Physicians						

Disease of Ear	Disease of Heart	Disease of Kidney	Disease of Liver	Disease of Spine	Disease of Uterus	Disease of Women	Erysipelas	Epilepsy	Earache	Fistula	Fever	Fracture	Gastritis	Gouorrhœa	Grippe	Gleet	Hemorrhage	Hemorrhoids	Hernia	Headache	Hysteria	Insanity
1	11	1	2	1	1	3	4	2	1	1	101	2	2	11	130	1	13	4	10	43	6	7
	27		2	ļ	2		7				156	2	5	4	123		12	11	13	19	10	15
1	10	3	1	1		3	3	2	1	1	27		1	38	85	8	20	?	4	64	3	2
	2		. .		1		3	1	ļ	١	9	1			6				1		2	4
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1	7	1	1	1	1	2	3		1	1	93		1	9	120	1	13	3	4	42	2	1
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DISEASE	Injury .	Inflammation	Icterus	Influenza	Leucorrhoea	Lumbago
Number of cases	91	7	1	1	4	26
Number of visits	93	4	4	1		14
Number of office advices	73	1	5		5	36
Number of Night Calls answered	16	1				
Number of Cases sent to Hospital	13		. .			
Number of Insane Cases examined.		١.				
Number of County House Cases examined	3			. .		
Number of Cases recovered	69	7		1	3	26
Number improved					1	
Number of Cases not improved						
Number not found						
Number of Cases not requiring treatment						
Number of Cases died						
Number still under treatment.	1		1			
Number of Vaccinations		 				
Number of Cases seen at Hospital						
Number of Cases referred to other City Physicians	5		 		 	

Measles	Mumps	Miscarriage	Malaria	Melancholy	Neuralgia	Nervousness	Neurasthenia	Nausea	Number not Found	No. Not Req'g Treatm't	Ovaritis	Pain	Piles	Phthisis	Pneumonia	Paralysis	Pregnancy	Poisoning	Pleurisy	Peritonitis	Rachitis	Rheumatism
9	2	4	2	1	9	60	1	41	54	14	2	118	; 3	16	14	5	3	8	2	1	1	1 9 9
28	5	21	2		10	41		50	57	10	3	118	ļ	50	31	6		34	1	2	1	141
1		3		1	7	97	1	21		1	2	59	3	10	2	2	4		1			203
4		2			1	9	¦		6	3		11		2	1	1	· · · · ·	2				1
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4	2	2	1	1	8	48	1	35				104	3	3	11	3	3	7	2		1	166
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DISEASE	Suppressed Menses	Stomatitis	Senile Debility	Swelling	Scarlet Fever
Number of cases	8	5	14	28	11
Number of visits	7	5	19	56	45
Number of office advices	17	8	5	14	
Number of Night Calls answered	ļ			2	
Number of Cases sent to Hospital				1	
Number of Insane Cases examined	1	.			
Number of County House Cases examined	ļ	 	2		ļ. .
Number of Cases recovered	8	5	9	22	10
Number improved			2	1	
Number of Cases not improved					
Number not found	 	 			
Number of Cases not requiring treatment		l			
Number of Cases died			1	2	
Number still under treatment	 .				
Number of Vaccinations	 	 			
Number of Cases seen at Hospital	ļ	 			
Number of Cases referred to other City Physicians				2	1

Totals			Weakness	Worms	Varicose Veins	Vaccinations	Venerial Diseases	Unconsciousness	Bremic Poisoning	Ulceration	Tonsilitis	Typhoid Fever	Tumor	Small Pox	Sprains	Surgery	Sore Throat	Syphilis	Spasms	Scalds
2,345		 	37	6	2	37	1	3	1	71	14	13	5	3	1	1	13	6	2	4
2,438		 	41	2		ļ		3	1	41	14	67	11	6		1	11	5	3	6
1.825	ļ	 	24	4	2	37	6			62	7		11		2	ļ. .	6	6	1	2
148	ļ	 	1					1		2	2						1	 		
83		 					 	3	1	3		2	2							
1		 ļ																		
61	.	 . • • • •			1			. .		4			1					1		
1,925		 	36	6	1		1			61	14	,	2	1	1	1	11	3	2	3
41	. .	 								2								1		
2	. .	 																		
54		 																		
. 14		 																		
30		 																		
13												1								
37		 				37													. j	
84	••••	 	1				••••			1		1		2			2	1		1

DETROIT, MICH., July 1, 1901.

To the Honorable the Board of Poor Commissioners:

GENTLEMEN—The following is my report for the year ending June 80th, 1901.

Respectfully submitted,

A. H. GORENFLO,

City Physician

DISEASE ,	Alcoholism	Adenitis	Abortion	Asthma	A bscess	Appendicitis	Amenorrhæa	Arthritis	Apoplexy	Anæmia	Bronchitis	Bubo
Number of cases	31	14	6	4	7	3	3	1	2	2	203	1
Number of visits	34	18	15	2	5	6	2	1	7	.5	181	, 1
Number of office advices	18	6	8	8	5	 	3			1	154	ļ
Number of Night Calls answered	4	1	2	'1	2	 .					5	¦
Number of Cases sent to Hospital.	10	1	1	ļ	1	3	l		1		3	
Number of Insane Cases examined											i	
Number of County House Cases examined.	1	1		1	1						3	 .
Number of Cases recovered	20	11	5	1	3	 	3	1	1	2	194	1
Number improved.		٠		1							1	
Number of Cases not improved	į		j									
Number not found							 			j		
Number of Cases not requiring treatment						ļ ,						
Number of Cases died	j					l I .						
Number still under treatment				1								
Number of Vaccinations.			;				i					
Number of Cases seen at Hospital		1	. 1									
Number of Cases referred to other City Phys'ns		1	l	1	2						2	l

Constipation	Cholera Infantum	Cirrhosis of Liver	Cardiac Disease	Confinement	Carcinoma Stomach	Cystitis	Cataract	Cerebral Embolus	Chlorosis	Convulsions	Conjunctivitis	Cholelithiasis	Cripple	Chorea	Cocaine Habit	Deformity	Diarrhœa	Debility	Dermatitis	Diptheria	Diabetis	Delirium Tremens
40	2	3	30	15	2	5	1	3	2	2	1	1	2	1	1	6	5	225	7	17	1	1
18	5	6	69	90	2	2		14	1	2	٠	1		4	 .		4	227	9	59	1	1
31		4	85			6	1		15	1	1	1	2	ļ	1	6	3	186	3			·
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DISEASE	Dentition	Dyspepsia	Enteritis	Epilepsy	Erysipelas	Examination	Epididymitis	Есгета	Erythema	Fracture	Fistula	Furuncle
Number of cases	6	2	144	4	8	1	6	1	1	6	2	2
Number of visits	6	1	185	5	26		5	1	1	9	4	
Number of office advices	2	1	47	5	9	1	2			6		2
Number of Night Calls answered			2		1					1		
Number of Cases sent to Hospital			1	1	2		2			4	2	į <i>.</i>
Number of Insane Cases examined			١					 				
Number of County House Cases examined										1		
Number of Cases recovered	6	2	138	2	5	1	4	1	1			2
Number improved		ļ		1								
Number of Cases not improved			1									ļ
Number not found								,				
Number of Cases not requiring treatment												
Number of Cases died	. .		4		ļ							
Number still under treatment		ļ			 					1		. .
Number of Vaccinations		ļ	l					••••				
Number of Cases seen at Hospital				 								
Number of Cases referred to other City Phys'ns		ļ	ļ 	l	1							 .

Frozen Feet	Fissure Nipple	Gastritis	Gonorrhæa	Hernia	Hypochondriac	Hemiplegia	Heat Prostration	Herpes	Bysteria	Hip Joint Disease	Hæmorrhoids	Indigestion	Influenza	Injury	Insane	Intercostal Neuralgia	Intestinal Obstruction	Infected Leg	Inflammation of Cornea	Lumbago	La Grippe	Leucorrhæa
1	1	121	1	11	1	2	1	1	8	1	2	4	162	86	5	1	1	2	1	9	1	5
	1	155	1	5		3	1		12	1	2	1	256	76	5	1	4	4	1	6	1	8
1	1	52		17	1		 	1	8			3	28	82						6		8
		11	1	1			1		4	ļ 		ļ	9	5		· .						
		5	 .	2)	1	1		2	1	1	ļ	4	6			1	1	1	1		
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DISEASE	Laryogitis	Locomotor Ataxia	Lacerated Cervix	Lead Colic	Measles	Migraine	Metritis	Malaria	Mitral Insuficiency	Miscarriage	Mastoid Abscess	Menorrhagia
Number of cases	1	1	1	1	11	21	16	3	3	1	1	8
Number of visits	1	1		2	26	21	27	3	8	8		16
Number of office advices			4		1	5	8		1	l	1	6
Number of Night Calls answered		 		1	 .		2		1	1		
Number of Cases sent to Hospital		 .	1				5	1	İ			1
Number of Insane Cases examined								١.	ļ			
Number of County House Cases examined		 		 					 			
Number of Cases recovered	1	.		1	10	21	11	.2	1	1	1	6
Number improved		. .		l	ļ		. ,					
Number of Cases not improved								ŀ 				
Number not found	 . .			 				<i>.</i>	 	 		
Number of Cases not requiring treatment		1		 .								
Number of Cases died				 .				2				
Number still under treatment.												1
Number of Vaccinnations				l								
Number of Cases seen at Hospital												
Number of Cases referred to other City Phys'ns					1			••••				

Мепораиве	Metritis	Neurasthenia	Not Found	Not Requring Treatm't	Neuralgia	Nephritis	Necrosis	Neuritis	Nephrolithiasis	Ovaritis	Obesity	Orchitis	Olitis Media	Old Age	Pleurisy	Paratonsilitis	Periphlegia	Poisoning	Phthisis	Pharyngitis	Parotitis	Pertussis
6	1	40	26	66	10	7	1	1	2	19	1	2	4	1	12	5	8	4	2	10	3	8
6	1	57	26	66	8	22	1		2	. 37		1	6	7	28	17	22	4	1	6		25
5		33		2	2	2	 	1		2	2	1		2	18	1	41		1	8	2	8
•••	1	2	1	7	1	1			1	1	 			1				2			• • •	
	1					1	.1			4				ļ. .		1		1				••••
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6		40	•••		10	4		1	2	. 15		1	. 4		12	4		3	····	8	2	7
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DISEASE	Pelvic Inflammation	Pregnancy	Pneumonia	Pyosalpinx	Peritonitis	Ptyalism	Rheumatism	Retained Placenta	Retention Urine	Syphilis	Stomatitis	Senility
Number of cases	1	5	11	4	1	1	95	1	1	7	6	7
Number of visits		5	45	4	1	1	64	1	3	2	7	42
Number of office advices	1	3	1	` .			68			15	2	2
Number of Night Calls answered						i !••••	2	ļ .				ļ
Number of Cases sent to Hospital	. .	 .	5	3	1	1	5	1				
Number of Insane Cases examined		 .						ļ				
Number of County House Cases examined		.				į. .	9			2	 •••	1
Number of Cases recovered	1	5	6	1		·	77		1	4	6	
Number improved		ļ					1	 	 .			1
Number of Cases not improved			 			, 			ļ. .			İ
Number not found		. .	i '					·	l			
Number of Cases not requiring treatment			١				1			٠.		
Number of Cases died			1	1				i .				1
Number still under treatment			i	 			1					4
Number of Vaccinations.		ļ						 			١	ļ .
Number of Cases seen a Hospital											l	
Number of Cases referred to other City Phys'ns		ļ					1	l		1	.	

Totals.				Vaccination	Varicella	Vaginitis	Varicose Veins	Urethritis	Ulcer	LTuberculosis.	Tonsilitis	Typhoid Fever	Scarletina	Septicæmia	Sarcoma Hip	Sycosis	Scrofula	Sprain	Strangulated Hernia	Sciatica	Scarlet Fever
1,880				14	4	2	3	1	27	12	58	1.5	4	2	1	2	1	2	1	1	22
2,69					2	••••	3		31	54	122	69	8	1	1	1	1	3	1	5	183
1,162				14	13	4	¹	1	22	4	17	4		1		1					• • • •
98									2	1	1		, 1				·	1			2
125					· • · · ·			¦	2	1		10	2	1	1		· · · · ·	1	1		
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1,451					4	2	3	1	20	1	55	4	٠	1	····;	2	1			1	13
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MEDICAL DEPARTMENT.

To the Honorable the Board of Poor Commissioners :

GENTLEMEN—The following is my report for the year ending June 80, 1901.

Respectfully submitted,

J. W. ROTHACHER, M. D.

Pharmacist

MONTHS	No. of Prescriptions Compounded	Amount of Drugs, Medicines, etc. purchased
1900		
July	1,223	\$ 73 22
August	1,109	96 77
September	3,060	143 67
October	1,568	123 20
November	2,175	194 32
December	2,114	114 67
1901		
January	2,987	249 19
February	2,103	170 34
March	2,446	209 48
April	1,814	153 40
May	1,218	141 95
June	1,304	136 46
Total	23,121	\$1,806 67

Medicines to the amount of \$!31.16 included in the above, was supplied to the Home for aged incurables, and District Nurses

HOSPITAL REPORT.

To the Honorable the Board of Poor Commissioners:

Gentlemen—I beg leave to submit the following report, as physician in charge of the hospitals, showing the number of patients treated, the diseases for which they were treated, and the result of each case.

Respectfully,

H. R. VARNEY, M. D., City Physician.

ST. MARY'S HOSPITAL.

DISEASE	Recovered	Improved	Not Improved	Died	Still uuder treat- ment	Total
Amputation	2					2
Appendicitis	3	5	. • • • • •	2	2	12
Abscess	5	6	1	1	2	15
Asthma		1				1
Asphyxia.	1			. .		1
Alcoholism	3	1	1			5
Abortion	1	'				1
Bronchitis	2	ļ		1		3
Cardiac		1		1		1
Concussion of brain	1					1
Congestion of lungs	¦	· · · · •		2		2
Colotomy		,			1	1
Cystitis	1	3	1	1		6
Cataract	2	3		 		5
Cancer	ļ	. 8	1	4	1	14
Currettement	1		ļ			1
Debility		! . •••••		1		1
Dysentery:		·	2	 .		2
Dislocation	.	3	 .	 		3
Dropsy		1	1	2		4

ANNUAL REPORT OF THE

ST. MARY'S HOSPITAL-CONTINUED.

DISEASE	Recovered	Improved	Not Improved	Died	Still under treatment	Total
.se	1	1				2
		4	4	4		12
	2					2
		1				1
	1					1
a	3			1	2	6
ever	18	1		3		22
	2	4				6
	1	ļ				1
n					1	1
	2	. 9	1			12
;ase,	5	2			1	8
	209	169	26	58	26	488

BOARD OF POOR COMMISSIONERS

ST. MARY'S HOSPITAL-CONTINUED.

DISEASE	Recovered	Improved	Not Improved	Died	Still under treatment	Tota!
La Grippe	8	1		2		11
Laparotomy	1					1
Laceration	3					3
Laryngitis			1			1
Miscarriage	9		1			10
Malaria	3		. 			3
Metritis	3	6		1		11
Nervous Prostration	1	1				2
Neurasthenia	1	2				3
Nephritis	1	1		1		3
Necrosis of Bone	1	2				3
Neuralgia		1				1
Ovaritis	13	2		1		16
Ovariotomy	1					1
Parotitis			1			1
Pneumonia	16	5	 	19	1	41
Poisoning	6					6
Paralysis	1	1	2		1	5
		1	4	4		9
Peritonitis	1			1		2
Peri-phimosis		1				1
•		1				1
Pleurisy	3					3
Puerperal fever	2	1				3
Palpitatiou of Heart		1				1
Pyo-salpynx	1	1				2
Pelvic inflammation	1					1
Rupture		1				1
Rheumatism	27	9			1	37
Retention of Urine		1				1
		1				1

ANNUAL REPORT OF THE

ST. MARY'S HOSPITAL-CONTINUED.

DISEASE	Recovered	Improved	Not Improved	Died	Still under treatment	Total
Skin disease	1	1				2
Senility		4	4	4		12
Spinal	2					2
Stomatitis		1				1
Sprain	1					1
Septicæmia	3			1	2	6
Typhoid fever	18	1		3		22
Tumor	2	4				6
Tonsillitis	1	ļ				1
Tape worm					1	1
Ulceration	2	9	1) 	12
Uterine disease	5	2			, 1	8
Total	209	169	26	58	26	488

EMERGENCY HOSPITAL.

DISEASE	Recovered	Improved	Not Improved	Died	Still under treatment	Total
iolism	21	6			1	28
astia	1					1
ess	1		1			2
nitis		1			1	2
inement	4		******			4
cer		538353	******	1	*******	1
diac disease	1	1	1		1113.12	3
rium Tremens	3	2				5
lepsy	1	1	1	******	23,500	3
ema		1		******		. 1
acture	2	5	1	1		.9
stulæ		1				1
neral Debility				1		1
eat Prostration	1				1227 2444	1
ernia		1	(*******		1	2
emorrhage of lungs		1	,,,,,,,,	1		2
duenza	*****	1	120.435			1
ijury	2	1				3
nsanity	1	10	25	47A	2	38
nflammation of bowels	*****			1		1
umbago	310		1			1
dyalgla	******				1	1
Miscarriage	2	200.00	- 7553	1	Same	3
Nervous prostration	2427371		1	111/11/11	1515577	1
Neurasthenia			1	-		1
Nephritis	mini	1	******		1	2
Orchitis	1	1	1		1	4
			1	****		1
Peri ostitis		1		0113000	1	1
Pleurisy		1	******			1
Poisoning	2		2424 241	1		3

EMERGENCY HOSPITAL-CONTINUED.

DISEASE	Recovered	Improved	Not Improved	Died	Still under treatment	Total
Pueumonia				2		2
Ptyalism	1					1
Phthisis	 ••••••			1		1
Peritonitis	1			1		2
Veneral Disease	1	 				1
Valvular insufficiency	·····			1		1
Rheumatism.	2	1				3
Syphilis		i	1			1
Scalp wound	1				1	2
Septicæmia		1	 •••••			1
Stricture				1		1
Urethritis	!	1				1
Total	49	39	35	13	9	145

HOUSE OF PROVIDENCE.

DISEASE	Recovered	Improved	Not Improved	Died	Still under treatment	Total
Pregnancy,	6	3			•••••	9
Total	6	3				9

SUMMARY.

HOSPITAL	Recovered	Improved	Not Improved	Died	Still under treatment	Total
St. Mary's	209	169	26	58	26	488
Emergency	49	39	35	13	9	145
House of Providence	6	3			••••	9
Total	264	211	61	71	35	642

THIRTY-SIXTH ANNUAL REPORT

OF THE

DETROIT PUBLIC LIBRARY

TWENTIETH REPORT

OF THE

LIBRARY COMMISSION

OF THE CITY OF DETROIT
MICHIGAN



FOR THE YEAR NINETEEN HUNDRED

WM. GRAHAM PRINTING CO., 49 WEST CONGRESS ST., DETROIT, MICH.

BOARD OF

PUBLIC LIBRA

MEMBERS

*MAGNUS BUTZEL, . . .
GEORGE OSIUS, . . .
C. HENRI LEONARD, M. D.,
JOHN S. GRAY, . .
JOHN E. CLARK, M. D., .
MAYNARD D. FOLLIN, .
JAMES E. SCRIPPS, . .
HORACE G. SMITH, .

OFFICERS OF THE

JOHN S. GRAY,
C. HENRI LEONA
JAMES E. SCRIPP
HENRY R. ANDR

STANI

On Administration—Messes.
On Books—Messes.
On Fins

Librari E

*Mr. Butzel died January 17, 19 expired term. Mr. Butze death John S. Gray was

BOARD OF COMMISSIONERS

OF THE

PUBLIC LIBRARY OF DETROIT, 1901

Members	ADDRESS	TERM EX	PIRE
C. HENRI LEONARD, M. D.,	18 John R. Street, .	Jan. 1,	1902
JOHN S. GRAY,	37 E. Woodbridge Street,	**	1903
JOHN E. CLARK, M. D., .	18 John R. Street, .	. "	1904
MAYNARD D. FOLLIN,	104 Jefferson Avenue, .	46	1905
JAMES E. SCRIPPS,	598 Trumbull Avenue,	44	1906
GEORGE OSIUS,	322 Field Avenue, .	. "	1907
EDWARD F. MARSCHNER.	680 Meldrum Avenue (ex-		

OFFICERS OF THE LIBRARY COMMISSION, 1901

C. HENRI LEONARD,	M. D.	٠,		President
JOHN S. GRAY,	•		Vice	-President
JAMES E. SCRIPPS,				Secretary
HENRY R. ANDREWS	ler.o	fficial.		Tressurer

STANDING COMMITTEES

On Administration—Messrs. Gray, Clark, Osius
On Books—Messrs. Follin, Scripps, Osius
On Finance—Messrs. Clark, Scripps, Marschner

Librarian and Superintendent HENRY M, UTLEY

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Report of

To the Board of Education:

Gentlemen—The Libra reports of the affairs of the the consideration of your!

From the Librarian's r books belonging to the I before, showing an incre: year 1899. It is true muc of the various branches d the circulation added by 1 Central Library has inci previous year. Bearing in tion of the branches is dr ily see that the demand 1900 was greatly in adva the ratio of increase will year, may be confidently greater number of patror the issue of cards, than mostly in the latter par other cities is to be any expect a very great i branches. The Chicago of its circulation throug while in other cities the

The Commission was without encroaching on the Common Council ar our request for \$10,000 financial report the sum ne year ago with which to make additions to the vercrowded premises. The difficulties that have ne way of carrying out the original intention, as well pject of procuring a new library building, are fully the Librarian. For these two reasons, and because itancy felt in spending the people's money to make, poorly patched up job of the present building, this carried in our resources, until it shall be fully det course of action is best to adopt. That any alterddition it is possible to make to the present building e, at most, but for a few years, is apparent to everyknows the conditions; and the question seems to be. Library be kept up to the constantly growing dea great city, or permitted to drift along as best it dless of these demands? Surely no public spirited Detroit would purposely obstruct the erection of a ilding such as might be pointed to with pride, and ld compare favorably with those of other cities. e plan of City Controller Blades be adopted it would the erection of such a building could be attained indue hardship to the taxpayers of the city. This issue city bonds running thirty years and to raise on each year a sum sufficient to meet the interest, er cent., and also 21/2 per cent. more to form a sinkfor the final payment of these bonds, thus making a per cent. to be raised each year. In thirty years 75 will have been accumulated from the 2½ per cent. m, and it is estimated that the interest from the sinkon deposit will easily care for the remaining 25 per is will give the city the benefit of a suitable builde near future, with the cost of its erection running riod of thirty years—and thereby placing a part of its the generation in the future that will be benefited

sed expenditure for 1900 of \$8,222.15 as compared previous year, is due almost entirely to the fitting up anches and their maintenance. The actual expense stration of the Library has been kept at the lowest sum consistent with effectual service.

It is a matter of sethat in seeking to interest the various schools, could be asked, to fract that it is due to in the High School that without your ful if these could On January warmest friend few days before sion. His detail that of Rich

the year fin men had so keenly fel ready tal apprecia vices th

١

It is a matter of satisfaction to the Library Commission that in seeking to increase the circulation of books through the various schools, your Board has done everything that could be asked, to facilitate the work. We also recognize the fact that it is due to the Board of Education that these rooms in the High Schools were made available for the branches, and that without your friendly co-operation it is extremely doubtful if these could have been established during the year.

On January 17th the Library suffered the loss of one of its warmest friends, in the death of Magnus Butzel, who, but a few days before, had been elected President of the Commission. His death was followed soon after—on May 7th—by that of Richard Storrs Willis, who had at the beginning of the year finished his term of office as President. Both of these men had served the Library long and faithfully and their loss is keenly felt. Appropriate notice of these deaths has been already taken, and it only remains for us to again record our appreciation of their high character, and of the invaluable services they have rendered the Library.

Respectfully submitted,

John S. Gray,

President.

DETROIT, December, 1900.

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Report of the Secretary.

To the Commissioners of the Public Library:

Gentlemen—Complying with custom, I submit a report of the receipts and expenditures on account of the Library fund during the year 1900.

The Common Council and Board of Estimates made a special appropriation of \$10,000 for the enlargement of the building which was then in contemplation. But it was found, when bids were obtained for the work, that it would cost much more than the amount of the appropriation. Therefore, the Board set aside this sum, less the \$500 paid the architects for making plans and specifications, as a building fund, as shown below:

Balance on hand January 1, 1900......\$32,537 53

RECEIPTS.		
From City Treasurer:		
City taxes, 1899\$ 5,973 73 City taxes, 1900		
<u></u>		
From County Treasurer, fines and penalties	3,084	71
Interest on daily balances	773	
Library fines		
For lost books	175	
From sales of catalogues		05
Books sold	56	77
Junk sold	40	18
Messenger fees	2	20
Rebates	3	81
Money found in the Library	4	00
Total receipts\$9	0.514	84
Total disbursements, as per table below	2,556	7Š
Balance in treasury December 31, 1900	z.os8	<u></u>
Less amount in Library Building Fund		

Balance in General Fund......\$28,458 of

\$52,556 78	\$1,268 71	\$208 99	\$1,888 07 \$3,230 03 \$208 99 \$1,268 71		\$3,304 78	\$42,656 20	Total
3,536 50			25 00	8 8	8 8	3,331 50	Janitor service
21,777 35	:	:	133 88	539 17	607 50	20,496 80	
2,135 17	:	:	1,385 90	69 58	69 629		Fitting branches
575 00		:	37 50		37 50	200 00	Architect's services
1,314 53	:	:	:	:	:	1,314 53	Printing catalogues
33 60		:	15 12	8 9	12 48		Insurance
1,130 21	:	:	319 62	os 69	264 12	476 97	Furniture
10 111	:	:	:	:	:	111 01	Express
141 14	:	:	:			141 14	Postage
1,210 69	:	124 00	25 15	52 75	47 24	961 55	Supplies
775 74		:	14 10	13 46	14 27	733 91	Blanks and stationery
828 67		:	:	:	:	828 67	Repairs
16 896		:	:		:	16 896	Fuel
3,439 51	:	:	:	:		3,439 51	Binding
2,657 80	:	\$ 84 99	9ì <i>1</i> 5	02 16	86 22	2,337 79	Books 2,337 79

The financial statement of the Library is for the calendar year, while the fiscal year of the city runs from July to July. Therefore the balance shown above does not represent a surplus, but the working funds of the Library for the coming six months.

JAMES E. SCRIPPS,

Secretary.

Report of the Librarian.

mmissioners of the Public Library:

emen—I have the honor to report the operations of ary during the year 1900:

whole number of books added to the Library during was 11,578. At the same time there were withdrawn out, lost and sold or exchanged—3,294 books, making 1 of net additions 8,284, and increasing the total numbooks in the Library to 165,794.

extensive use of the books wears them out very rap-216 being thrown aside during the year from this cause. are almost wholly in the class of popular novels. Sevundred of these books, too badly worn and soiled for se, were given away, to the county asylum, the county he several city missions, etc. An effort is usually made place the worn out books, if they are still in demand, but en happens that they are out of print and not obtainable asonable prices. In cases where we have a sufficient ber of copies, the worn out books are cancelled and the k reduced to that extent. The number of books bought ng the year, to replace, was 1,260.

Of the net additions of the year 3,465 were placed in the itral Library, 3,269 in branch libraries, and 1,190 in the pubschool libraries. Of the whole number of books belonging the Library 151,883 are in the Central Library, 3,629 in anches and 10,282 in the public school libraries. Of the books the Central Library 8,235 are unusued duplicates. There are 993 books in the German language, 3,935 in French and 102 in Polish. In the last mentioned language no additions are been made for several years and a fresh supply is greatly needed.

Detailed statistics of the book accessions, as well as of the use of books and periodicals, will be found in the appendix to this report.

Use of the Library.

The use of the Library shows an increase over preceding The total use of bound books at the Central Library was 896,970, as against 848,482 in the previous year. Added to this is the use of books at the branches and in the schools, amounting to 160,642, making a grand total of 1,057,612 books. There is also to be added to the account, the use of current periodicals in the reading room at the Central Library and in the branches, which amounts to 243,046. This does not include the reading at the Hurlbut branch, to which we supply periodicals, and of which no record is kept. This makes a grand total of 1,301,558 library books and periodicals used durng the year, an increase of 158,350 over the preceding year. t should be said that this is below the actual fact, because. the nature of things, many books are used at the shelves and various parts of the Library, of which no record can be pt. Our system of taking a receipt for each book delivered a patron permits an exact count of such use, but there are en shelves at which people help themselves to one or many ks as they please.

The number of holders of library cards who are entitled raw books for home reading has increased by 1,618 during past year. These cards are good for five years from the of issue. The following shows the number issued in the named and the number of valid cards now outstanding:

1896																													
1897 1898																													
1800											 							 										5.7	бı
1900																											_		
W	ho	1	е	1	nı	u	n	1) (r	c	f	c	a	r	d	s	 				 					٠.;	31,9	46

ne cards issued during the year 1,260 were issued on ons filed at the branches by persons who never before ry cards.

Branch Libraries.

ne most important events of the year was the g of branch libraries. This has been discussed rs, but there were financial difficulties in the way. removed by the appropriation by the Common Board of Estimates of \$10,000 to compensate in the loss of revenue from police and other crimnes, which, from some inscrutable cause, dropped e vanishing point. The matter was further facile Board of Education, which furnishes a suitable h of the three high schools without rental charge, nd lights the same without expense to the Library

it of these branches, located in the Central High rance on Warren avenue, Miss Mary Myler in is opened April 2. The second is in the Harris lding, corner of Ellery and Pulford streets, which s temporarily occupied for high school purposes ne completion of the new building on the Eastern The Library was opened April 16, with Mr. inkowski in charge. It occupies the same room on d floor with the school library and the books of the ich were supplied by the Library Commission, are scriminately with those of the branch proper, except are not given out for home circulation. The Library exclusive use of the pupils during school hours—8:30 p. m., and is in charge of the school librarian. From until o p. m. it is a public library and is in charge of rian.

third branch is located in the Western High School on avenue, and was opened October 25th, with Miss Besv, librarian, in charge. The opening was delayed thus the year to await the completion of the building. The of cost of these three branches will be found in the Secreport, and the number of books placed in them, and e will be found in Appendices A and B.

vas expected that the Hurlbut Library, in the Water Park, would be turned over to the Public Library to plied with books and made a full fledged branch. But the Water Commission has shown an inclination to retain its management and so it is utilized, so far as the Public Library is concerned, only as a delivery station. In this respect it has proven very useful and a convenience to a large constituency, as will be noted by a glance at the statistical tables. The Library supplies periodicals for the reading room; the cost of the daily delivery of books is trifling. Aside from these items the Library has no expense in connection with this branch. If the city limits should be extended on the east side, as has been suggested, or if a bridge should be constructed from the Water Works Park to the Island Park, this library would be the focus of a larger constituency even than at present. The Library Board may well encourage its development and use in all possible ways.

Reading for the Young.

Operations through the public schools have been continued on the same plan as heretofore and with results which will be found set forth in Appendix B. Several hundred volumes have been supplied to the three high schools for exclusive use in those schools, but the lists for the grammar grades remain substantially as heretofore. In view of the increase in the number of pupils and the fact that many of the books are much worn, it will probably be wise to revise the lists and enlarge them, at the end of the present school year.

An improvement has been made in the matter of more prompt collection and delivery of the boxes. It has happened that much valuable time was wasted in the transportation of books to and from the Library. As this matter was in the control of the Board of Education, through its agents, the Library management had nothing to say about it. Now, however, there is a full realization in all quarters of the importance of prompt action.

The space devoted to the children's department at the Central Library has proved entirely inadequate to the demands upon it. Temporary arrangements were made by placing tables and chairs in the branch packing room and opening it for the overflow on busy days. This was better than turning the children into the street, but far from satisfactory. Early

as devised to add another story to the rear ilding, transfer the newspaper files to the extend the children's room to double its An appropriation of \$10,000 was allowed by cil and Board of Estimates for the purpose. re received for the work it was found that exceed the appropriation and so no relief r in that direction.

stion has been made but held under considesent, and that is, to transfer the children's e general reading room on the main floor, vspapers to the present children's room and the reference room. This change of quarters irable thing for the children, and would well: newspaper readers, but the drawback lies in number of magazine readers into the reference sible annoyance of the people who make such e latter for purposes of study. However, it ner probable that some way will be devised to odate young patrons of the Library without to their elders.

liberty to quote some interesting items from t of Miss Mary Conover, Superintendent of the rtment: "Although not within the months covport I should like to mention a picture bulletin de for us by the Albany library school. It was the history of Concord and Lexington in the ne American revolution and was accompanied by s of interest in connection with the subject. ved two more from the same place, one, 'Children ids,' for which we made the accompanying readother, 'Hawaii.' October 12 we hung a tastefully ard picturing Columbus, his life and discoveries, th an exhaustive list of Columbus literature conr room, enclosed in a decorative cover. It was deexecuted by Miss Mumford, who also loaned a pic-Columbus monument in further illustration of the he also prepared a thorough and comprehensive list oncerning 'Pilgrims and Puritans' and a pretty and ulletin which we put up just before Thanksgiving. We have a board covered with dark green burlaps which serves as a background for weekly lists of new books, book covers, authors' pictures, and whatever arouses in our public an intelligent interest in current events or matters of history and the books which illuminate them. Special picture bulletins celebrated Admiral Dewey's visit to the city and emphasized the lessons of labor day, the presidential election, affairs in China. etc.

"A few weeks ago Miss Queene Ferry had carved wood window boxes made for three of our windows. These were filled with beautiful and well chosen plants by Miss Blanche Ferry and Miss Katharine Smith. The flowers add greatly to the attractiveness of the room and the kindly interest thus shown in our work is most grateful to us.

"To my knowledge sixteen books have been lost or stolen since January last. This undoubtedly falls short of the actual number. When one of several copies is missing it takes some time to detect its loss. About twenty books have been found that were previously reported lost. The loss of books has been diminished by the increased help allowed us. This also has left us more time to devote to various arrangements for facilitating the use of the library by teachers and children. Among other things, we have begun a card catalogue of the books, not fiction, in this department.

"In conclusion, I desire to say that whatever success this department has attained is due in a large degree to the breadth, originality, accuracy and tact which my assistant has brought into all her work, and to the fact that all service rendered by those connected with the room has been efficient, cheerful and loyal."

Medical Department,

Since the Medical Library Association turned over its collection of books to the Public Library practically nothing has been done to add new material of a technical kind. A half dozen of the leading medical periodicals of this country and of Europe are subscribed for and filed on the shelves in the medical department. But the use of the literature thus sup-

plied has been somewhat disappointing. An earnest effort is now making among the medical profession of the city to awaken interest in the matter. A considerable number of the physicians of the regular school have agreed to help out by personally subscribing for periodicals, which, after current use, they will turn over to the Library for binding. The Commission has appropriated \$500 for the purchase of new and latest editions of medical books and other steps are being taken to place the department more en rapport with the profession. If then they prove their appreciation of the efforts and expenditures in their behalf the management of the department may govern its future action accordingly.

Catalogues.

The annual bulletin of new books was issued as usual early in the year. The new finding list of fiction, English, German and French, noted in the last report as printing came out early in the year. A reading list of books on chemistry and allied subjects was issued in the form of a folder and sent out to everybody in the city who might be supposed to be interested. There is in contemplation the printing of a catalogue of the medical department when the new accessions are on the shelves.

It has been found necessary to enlarge the card catalogue cabinet by the addition of 120 double drawers. The work of correcting and improving the catalogue, many of the early written cards being imperfect according to modern ideas, is being accomplished as fast as leisure from the regular routine duties will permit. This involves the entire readjustment of most of the larger classes, the writing of hundreds of additional cards and re-writing many old ones. Typewritten cards are now used for the catalogue. They have the advantage of greater legibility, uniformity in appearance and can be produced much more rapidly than by the old system of handwriting.

The plan of printing in the daily newspapers once a week a list of the most important of the new books added during the week has proven very satisfactory. The lists generally embrace about thirty titles and as they appear regularly the pub-

lic watch for them and we have abundant evidence that they are consulted and used. All the daily newspapers of the city, English and German, print these lists conspicuously; English newspapers, the lists of books in English, and German newspapers the German books. The newspapers render a service to the public as well as the Library by these publications and are entitled to thanks for the same.

New Library Building.

The agitation for a new Library building has begun not a moment too soon. If the project should go through without unnecessary delay, and it must be said that the favor with which the suggestion has been received on all hands is very encouraging, at least five years will be consumed in the work. First will come the procuring of the necessary legislation and appropriation; then a site must be selected and secured; then plans must be agreed upon and architects and superintendent of construction appointed. All these things are preliminary to the obtaining of bids and the actual work of construction. This latter must proceed slowly in a building of the magnitude of the one proposed.

The present building is already badly overcrowded in some of its departments. The book shelving is rapidly filling up and long before any new building can be made ready, even if the work is not at all delayed, the book storage space will have been wholly used up, with no possibility of increasing it.

It was expected that the opening of branches in various parts of the city would relieve the Central Library to a considerable extent. But the experience of the past year does not justify this expectation. The patrons of the branches are found to be almost wholly residents in their vicinities who have not heretofore made use of the Library. So the people who come to the Central Library are as many as before and additional space is required here to handle the business of filling and sending orders from the branches. Instead of giving us additional room, they have actually appropriated some of our already too narrow floor space.

The Staff.

There have been few changes in the Library staff during the year. There were two resignations, one from broken health and the other from a change in life relationship. opening of branches drew upon the Central Library for three of the older members of the staff who were considered worthy of the increased responsibility of taking charge of a branch. This gave an opening for applicants for positions. In July an examination of candidates was held and five passed with great credit to themselves. Several of these have been already partially employed. Very little time has been lost on account of illness of any member of the force. There have been very few complaints on the part of the public, and from this we may infer that the service has been satisfactory. I am certain that the assistants have tried to do their duty in an efficient and proper way and the popularity of the Library attests how well they have succeeded.

Michigan Bibliography.

A resolution presented by Commissioner Scripps was unanimously approved instructing the Librarian to procure everything possible published in Michigan or relating in any considerable part to the state or any portion thereof. It has been for many years the policy of the Library to acquire everything of this nature obtainable. But the publication of the resolution gave a new impetus to the matter and brought to us valuable donations from our friends. The most important of these gifts came from Herbert Bowen, Esq., for thirteen years a member of the Library Commission and chairman of its book He gave us nearly two thousand books and pamphlets, almost every one of which fitted into the local bibliographical scheme. All these have not yet been catalogued. The preparation of such a bibliography is necessarily slow work, since it is in addition to the regular work of the library and involves considerable investigation. It is important that when published it shall be as correct and complete as possible.

It should be widely known that the Library wishes to acquire by gift or purchase everything written by natives or residents of Michigan, everything published in the state and everything relating in any way to the state or any locality or institution thereof. Friends of the Library will confer a favor by putting us in the way of securing such material, for the purpose of including everything within reach in the contemplated bibliography, when printed. Assistance in this direction will be highly appreciated.

Donations.

There have been many gifts of value to the Library during the past year, a detailed statement of which will be found in Appendix D.

The most extensive of these gifts was made by the heirs of the Bagley estate. When the library of the late governor was broken up the heirs joined in presenting to the Library many volumes, including complete sets of Harper's Magazine, Atlantic Monthly, publications of the Archaeological Society. a set of Poole's Index, etc., all of which are very acceptable and useful to either the main Library or its branches. notable gift of books and pamphlets of a local historical character by Mr. Herbert Bowen has been already mentioned. Miss Stevens gave us a complete file of the Engineering and Mining Journal. Dr. E. T. Tappey presented a framed group of photographs of Detroit physicians. Drs. Leonard, Sherrill, Mann and other doctors have contributed toward the enrichment of the medical department. All of the English daily newspapers have, as they have done in former years, supplied a fresh copy of every issue for binding and these have been put up in quarterly volumes and placed on our shelves for consultation.

Our thanks are due to the very many friends, widely scattered from one end of the country to the other, and even in foreign lands, who have so kindly remembered us in the way of adding to our supply of literature many valuable things which, in all probability, we could not otherwise have obtained.

H. M. UTLEY.

Librarian.

APPENDIX A.

BOOK ACCESSIONS, 1900.

No. of volumes in the library Jan. 1, 1900 Added by purchase		157.510
Added by binding 647 Withdrawn—Worn out 2,216 Lost and paid for 180	11,578	
Sold or exchanged	3,294	8,284
No. of volumes Jan. 1, 1901		165,794

NET ADDITIONS.

The net additions were distributed as follows:

Central library	. 3,465
Branch No. 1	.1,284
Branch No. 2	. 939
Branch No. 3	
Public School libraries	.1,190
Total additions	8 284

The gross additions by classes are shown in the following statement:

	Central Library.	Branches and Schools.	Total.
Bibliography	95	125	220
Periodicals	406	240	646
Philosophy	. 89	17	106
Religion	212	36	248
Sociology	439	156	595
Philology	52	60	112
Science	. 308	224	532
Practical Arts		29	377
Fine Arts		92	302
Literature		782	1,157
History		796	1,213
Travel	. 245	171 .	416
		•	•
Biography	. 273	447	720
Fiction		1,757	3.841
German		145	205
French		5	83
Polish	_		2
United States Documents.	• •		427
Unused duplicates	376		376
-			
	6,496	5,082	11,578

Following is a statement of the number of books in the Library in the several classes, with the net additions during the year:

1899.	Net Addition.	Total, 1900
Bibliography 2,230	220	2,450
Periodicals 9,359	613	9,972
Philosophy 2,534	104	2,638
Religion 8,498	248	8,746
Sociology 14,935	595	15,530
Philology 1,660	112	1,772
Science 8,570	529	9,099
Practical Arts 9,969	374	10,343
Fine Arts 4,652	301	4,953
Literature 13,981	1,072	15,053
History 15,922	1,198	17,120
Travel 9,856	410	10,266
Biography 11,836	716	12,552
Fiction 26,941	1,867	28,808
United States documents 7,830	427	8,257
Unused duplicates 8.737	• •	8,235
157,510		165,794

APPENDIX B.

THE USE OF THE LIBRARY.

Home Circulation by Months, 1900.

• Central Library.	Branch 1.	Brauch 2.	Branch 3.		School Library.	Total.
January 38,737				115	10,237	49,089
February 34,688				204	10,195	45,087
March 36,696				346	9,824	46,866
April 33,370	1,214	337		444	9,375	44,740
May 25,207	1,266	998	• • • • •	463	8,994	36,928
June 25,051	1,196	776		496	6,352	33,871
July 25,628	1,250	625		503		28,006
August 25,553	1,182	613		438		27,786
September 30,205	1,003	568		338	7,968	40,082
October 28,936	1,267	721	206	368	11,042	42,540
November 32,303	1,329	1,008	·1,795	491	10,616	47,542
December 30,388	1,236	1,003	2,181	529	9,969	45,306
Total366,762	10,943	6,649	4,182	4,735	94,572	487,843

LIBRARY CIRCULATION.

		Books.	Periodicals.
Central	Library	. 530,208	217.087
	No. 1		4,794
Branch	No. 2	· 24,975	19,230
Branch	No. 3	. 6,105	1,935
Tot	al	. 569,569	243,946

Branch I was opened April 2; Branch 2, April 16. The books of this branch are on the same shelves with the school library, also supplied by the Public Library, and the reference use of the books is indiscriminate. This Library is open 12½ hours a day. These circumstances will explain the comparatively large reference use of the books of this branch. Branch 3 was opened October 25. Branch I is open from 10 a. m. to 6 p. m.; Branch 3 from 10 a. m. to 9 p. m.

Following is a statement showing the use of books, by percentages, of both adult and juvenile, home circulation and library circulation:

	LIBRARY READING.		Home	READING.	
	Adult.	Ju ve nile.	Adult.	Juvenile.	
Cyclopedias	. 6.33	.01		·	
Periodicals	. 8.57	8.57	.63	.20	
Philosophy	. 3.20		1.05	.01	
Religion	. 4.20	.04	1.06	.06	
Sociology	. 5.40	.12	1.30	.12	
Philology	. 2.05	.01	.13	•••	
Science	. 5.44	.31	1.17	.22	
Practical Arts		.00	1.60	.11	
Fine Arts		.23	1.46	.17	
Literature		.36	2.80	.28	
History		1.37	2.02	.72	
Travel		.84	1.75	.20	
Biography		.40	1.96	.23	
Fiction	. 0.72	7.13	53.37	21.00	
German			3.42	.02	
French			.42		
Polish			1.15		
Other languages		•••	.02		
Medicine		•••			
Total	.80.52	19.48	76.39	23.61	

SCHOOL CIRCULATION.

Following is a detailed statement of the home circulation of the books placed in the public schools:

Schools.	Circulation.	Raroll- ment.	Schools.	Circulation.	Enroll- ment.
Alger	387	73	Johnston		46
Amos	- .	344	Lincoln	443	74
Bagley		50	Lyster		68
Barstow		200	McKinstry	397	7 8
Bellefontaine		238	Newberry	882	234
Berry		287	Nichols	396	85
Bishop		510	Norvell	1,696	414
Bronson		87	Owen		115
Campau		111	Palmer		61
Campbell		157	Pitcher	1,233	319
Cass		696	Poe		96
Chaney		264	Potter		56
Clay		139	Preston		60
Clinton		20	Roberts		167
Columbian	1,316	271	Rose		99
Craft		105	Russell		72
Dickinson		116	Scripps		142
Duffield	3,581	512	Tappan	I,420	485
Estabrook		289	Tilden	788	452
Everett		264	Trowbridge .	1,847	334
Fairbanks	934	272	Van Dyke	1,388	299
Farrand		243	Washington .	1,165	348
Ferry		189	Webster	1.86o	564
Field	2,086	354	Wilkin's		189
Firnane	468	46	Williams	1,880	332
Garfield	760	112			
Hancock	I,237	344		60	
Harris	245		Cant'l High C	64,908	12,706
Houghton	1,054	232	Cent'l High S	SCHOOL 21,720	1,874
Hubbard		62	Western	3.938	562 280
Irving	1,212	290	Eastern	4,000	200
Jackson		63			
Jefferson	2,353	469	Total		15,422

APPENDIX C.

LIBRARY STAFF.

Librarian
First Assistant LibrarianLucien B. Gilmore
Second Assistant LibrarianSARAH A. COCHRANE
Third Assistant Librarian
Librarian, Branch 1
Librarian, Branch 2
Librarian, Branch 3Bessie B. Brow
Librarian's SecretaryBessie Manchester
Book Committee's Secretary
Superintendent of Catalogue DepartmentSARAH A. COCHRANE
Assistants, Catalogue DepartmentMarie Ganley, Agnes Walls
Superintendent of Reference DepartmentLizzie Hurst
Assistants, Reference DepartmentM. E. LADUE, LOUISA CONOVER
Superintendent of Circulating Department
Deputy Superintendent of Circulating DepartmentANIELA H. PORAY
Assistants Circulating Department:
SARAH E. DOLL, LOLLIE BOEHNLEIN, ALICE H. WRIGHT, SUSIE ED-
wards, Fannie Curtiss, Helen M. Ward, Katherine G. Ling,
INEZ A. GEER, ZAIDA M. ADAMS, ISA L. PARTCH.
Superintendent of BranchesJESSIE C. CHASE
Superintendent of Children's Department
Assistant, Children's DepartmentRosalie Mumford
Superintendent of Periodical Department
Assistant, Periodical DepartmentALBERT S. WINKLER
Temporary Assistants and Substitutes:
ELIZABETH NELSON, GRACE PARKER, ETHEL S. MURRAY, MARGARET
Myler, Gracie B. Krum, Gertrude Lee, Josephine O'Flynn.
Messengers and Pages:
ROV PATTEN RODERICE FAILING CASS CHASE HERRET MCMILLAN

ROY PATTEN, RODERICK FAILING, CASS CHASE, HERBERT McMILLAN, LOUIS MEAD, WALTER FAIRBAIRN, HAROLD SMITH, ROBERT WEBSTER, GEORGE BARBOUR, WILL OWEN.

APPENDIX D.

Following is a statement of gifts to the Library showing the names of donors and the number of bound volumes and pamphlets given by each:

	Vols.	Pamph.
Amberg, E., Detroit		4
American Academy, Political & Social Science, Phil.		ĭ
American Anti-Vivisection Society		2
American Dermatological Association		1
American Laryngological Association	1	-
American Medico-Physiological Association	5	
American Swendenborgian Printing Company	5	
American Union League Society, New York	I	
Anderson, W. H., Detroit	ī	
Angell Mrs George R Detroit	•	1
Angell, Mrs. George R., Detroit		i
Aronstam, Dr. N. E., Detroit		2
Augir, E. F., Detroit	I	•
Bagley heirs, Detroit	477	T 022
Balch, E. S., Philadelphia		1,932
Balch, Thomas W., Philadelphia	I	
Politimore City of	ī	
Baltimore, City of	I	
Pelleure Hospital Society of Alumni	_	4
Bellevue Hospital, Society of Alumni	1	
Blades, Hon. F. A., Detroit	2	_
Blue Anchor Society, New York		3
Bollac, Leon, Paris		I
Boston Book Company		I
Boston Health Department	•	2
Bowen, Herbert, Detroit	418	1,435
Brant-Sero, J. O., Hamilton, Canada	I	
Briggs, D. B., Utica. Brimley, Charles A., Philadelphia.	I	
Brimley, Charles A., Philadelphia	2	
Brown, Mrs. Frank R., Detroit		10
Brownell, T. F., New York		I
Buffalo Charity Organization Society		2
Bunker Hill Monument Association	I	
Burnet Company, Boston	I	
California Fish Commission		1
California Mining Bureau		1
Canada, Agricultural Department of		I
Canada, Geological Survey	I	I
Canada, Royal Society of	1	
Chase, Miss Jessie C., Detroit	20	25

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	Vols.	Pamph.
Chicago Board of Education	1	
Chicago Civil Service Commission	1	
	1	
Cincinnati Chamber of Commerce	1	
Cleveland Board of Education		1
Conely, Edwin F., Detroit		Ī
Connecticut Board of Health	1	-
Connecticut Labor Bureau	ī	
Cooke, Mrs. A. W., Rochester, N. Y	Ī	
Corliss, Honorable J. B., Detroit	4	
Craig, Alexander, Chicago	Ĭ	
Cust, R. N., London, Eng	ī	
Daniels, G. H., New York	•	•
Daniels W C Denver		3
Daniels, W. C., Denver		
Detroit Free Press	4	
Detroit Journal	4	
Detroit News	4	
Detroit Tribune	4	
Dow, J. W., Wyoming, N. J	I	
Dryden, J. F., Newark	I	
Ehrman, Max, Boston	1	
Essex Institute, Salem, Mass		1
Evening News Association, Detroit	I	
Fairmount Park Art Association, Philadelphia	I	1
Farmer, James E., Concord, N. H	I	
Fidelity and Casualty Company, New York		I
Field Columbian Museum, Chicago		2
Ford, Mrs. Belle, Detroit	3	
Fox, Mrs. Emma A., Detroit	ĭ	1
Friends Yearly Meeting, Philadelphia	-	ā
Frye, A. E., Havana, Cuba	I	ī
Fullerton, Alexander, New York	ī	•
	16	
Gillette, W. S., Detroit		
Cross John S. Detroit	. I	
Gray, John S., Detroit	2	
Green, James, Worcester	_	3
Green, Dr. S. A., Boston	I	107
Hagerup, H., Copenhagen Hall, H. O., Washington		I
Hall, H. O., Washington		1
Hamilton, Wm., Washington	I	
Harvey, L. D., Madison, Wis		I
Hollinsworth, C. B., London, Eng	5	
Illinois Labor Bureau	I	
Indiana Geological Survey	I	
Indian Rights Association, Philadelphia		1
Indiana State Medical Society	I	
International State Press, St. Louis	10	
Iowa Geological Survey	1	
Irons, F. H. Saginaw		1
Isham, A. B., Cincinnati		1
Jacobi, Dr. A., New York	1	_
Jacobs, C. H., Detroit	-	7
Jacobs, Rev. W. J., Detroit		ī
Johnston, Mary, Detroit		5
Journal of Prison Discipline		3
loning of Tilon Pischime		

	Vols.	Pamph.
K., Judge J. M., Philadelphia	I	
Kansas Board of Agriculture		I
Ketcham, O. W., Philadelphia	I	
King, Horatio C., Brooklyn.	_	2
Leonard, Dr. C. H., Detroit	6	118
Maine Labor Bureau	I	
Malden, Massachusetts, City of	I	_
Marion Sims Hospital, Chicago		I
Marburg, Theodore, Baltimore	ĭ	
Massachusetts Board of Charities	1	
Massachusetts, Commonwealth of	I	
	-	
Revolution	Ī	
May, Charles S., Kalamazoo	1	
	92	
McDowell, Rev. John, Detroit	I	
Michigan Board of Corrections and Charities	37	2
Michigan Board of Health		I
Michigan Department of Public Instruction	I	
Michigan Secretary of State	-	
Milwaukee City Service Commission	3	1
Minnesota Geological Survey	2	•
Montana, Bureau of Agriculture	•	1
Missouri Bureau of Geology		I
Museer Dr I H		8
Musser, Dr. J. H	I	
Myler, Mary, Detroit	i	
Naval Architects, Etc., Society of, New York	ī	
Nebraska Labor Bureau	•	I
New England Anti-Vivisection Society		2
New Jersey Adjutant-General	I	-
New Jersey Geological Survey	2	
New Jersey Industrial School for Girls	-	1
New Jersey State Prison	I	•
New York Civil Service Reform Association	-	1
New York City Department of Education	I	-
New York Juvenile Asylum	_	I
New York Labor Bureau	2	2
New York Presbyterian Hospital	1	_
New York Reform Club	_	4
New York State Museum	3	•
Ohio Labor Bureau	2	
Oliver, Charles A., M. D., Philadelphia		4
Ontario Education Department	1	•
Paris Exposition, U. S. Commissioner-General		2
Parke, Davis & Co., Detroit	I	-
Parker & Burton, Detroit	-	2
Parker, E. J., Quincy, Ill		3
Paschkis, Dr. H., Berlin	I	9
Pennsylvania Museum of Art		3
Phebe A. Hearst Architectural Plan Committee, San		•
Francisco	I	
Philadelphia College of Physicians	I	
Philadelphia Commercial Museum	I	I

	Vols.	Pamph.
Presbyterian Hospital, New York	I	-
Providence Record Commissioners	1	
Rathbone, Mrs. J. H., Ann Arbor	1	
Rippey, J. N., Mt. Pleasant		3
Robert Smith Printing Company, Lansing	I	
Roehrig, Dr. G. E., Detroit.	1	
Sadler, R., Coldharbour, Eng	I	
Schmid, J. A., City Clerk, Detroit	4	1
Sheldon, Henry I., Chicago	1	
Sibles Hours S. Detroit	3	560
Sibley, Henry S., Detroit	I	
Smithsonian Institution	1 6	
Stevens, Miss E., Detroit	12	000
St. Louis Architectural Club	12	237
St. Louis Merchants' Exchange	I	
Sturtevant Company, Boston	•	2
Summers, N. R., Detroit	1	•
Sunset Club. Chicago	î	
Sunset Club, Chicago	ī	
Tappey, Dr. E. T., DetroitPor		fnhvsicians
Taylor, Elisha, Detroit	I	· physicians
Tierman, Charles B., Baltimore	ī	
, ,		
United States Government:		
Bureau of American Republics	I	•
" Census	•	3 25
" Education	2	-5
" Labor	2	
" Life Saving Service	ī	•
" Marine Hospital	ī	
" Weather	_	10
Civil Service Commission	I	
Coast and Geodetic Survey	ī	
Court of Claims	1	
Department of Agriculture	4	6
" Interior	13	20
" Navy	1	1
" State	7	16
" Treasury	5	4
war	1	
Fish Commission	I	
Geological Survey	8	21
Interstate Commerce	2	
Patents	5	
Superintendent of Documents	243	86
Unknown	3	_
Uruguay, Republic of		2
Valentine Museum, Richmond, Va	-	1
Vanderpool, N., Chicago	I	
Walker, D. U., M. D., Delfolt	I	
Wayne County Board of Supervisors	1	_
Wisconsin Free Library Commission		2
Wisconsin State Historical Society		,

	Vols.	Pamph.
Wisconsin Superintendent of Public Instruction		3
Wood Allen Pub. Company, Ann Arbor	I	
Wood, Henry, Boston	2	
Woodin, O., Detroit	3	
Colleges and Universities:		
Albion College		2
Amherst College		ī
Armour Institute of Technology		I
Bowdoin College		2
California, University of		2
Chicago College of Law		I
Chicago University	I	3
Colorado Agricultural College		I
Columbia University	3	I
Dartmouth College	2	3
Harvard University	4	•
Illinois University of	4	1
Illinois, University of. Iowa, University of. Leland Stanford, Jr., University		2
Leland Stanford, Jr., University		. I
Massachusetts Institute of Technology		I
Nebraska, University of		3
New York University		Ĭ
Northwestern University		I
Ohio State University		I
Pennsylvania, University of	4	_
Princeton Theolog. Seminary		I
Vermont, University of		6
Wisconsin, University of		2
Yale University	1	4
Tuc Oniversity	•	•
Libraries:		
Allegheny, Carnegie Library		ī
Amherst College Library		2
Ashton-under-Lyne, Eng., Heginbottom Free Library.		I
Atlanta, Carnegie Library		I
Baltimore, Enoch Pratt Library		I
Birmingham, Eng., Public Library		I
Boston, Athenæum		I
Boston Public Library	I	3 2
Bowdoin College Library		ī
Brockton, Mass., Public Library		ż
Brooklyn Library		2
Brooklyn Library Brooklyn, Pratt Institute Library		3
Brooklyn Public Library		ž
Brooklyn Public LibraryBrooklyn, Union for Christian Work		I
Buffalo, Grosvenor Library		8
Buffalo Public Library		3
California State Library		2

	Vols.	Pamph.
Cardiff, Wales, Public Library Cathedral Library of the Assumption, New York		I
Cathedral Library of the Assumption, New York		I
Chicago, John Crerar Library		1
Chicago, Newberry Library		2
Chicago Public Library		I
Cincinnati Public Library	I	3
Cleveland Public Library		I
Croydon, Eng., Public Library		r
Evanston, Ills., Public Library		1
Germantown, Friends Free Library		I
Gloversville, N. Y., Public Library		I
Hamilton, Ont., Public Library		I
Hartford Public Library		3
Harvard University Library		I
Indianapolis Public Library		I
Iowa Masonic Library		3
Jamestown, N. Y., James Prendergast Library		2
Japanese Imperial Library, Tokyo		I
lersev City Public Library		4
Kansas City, Mo., Public Library		Ī
Kansas City, Mo., Public LibraryLawrence, Mass., Public Library		4
Leyton, Eng., Public Library		r
Lincoln, Eng., Public Library		1
Los Angeles Public Library		2
Lynn, Mass., Public Library		I
Manchester, Eng., Public Library		2
Lynn, Mass., Public Library		5
Michigan State Library	34	52
Milwaukee Public Library		3
Minneapolis Public Library	I	4
Newark Public Library		10
New Haven Public Library		11
New Jersey State Library	i	
New London, Conn., Public Library		I
New South Wales Public Library		I
Newton, Mass., Public Library		I
New York City Public Library	I	I
New York Free Circulative Library		I
New York, General Society of Mechanics, etc		2
New York Mercantile Library		2
New York Society Library		I
New York State Library	4	7
New York Y. M. C. A. Library		2
North Easton, Mass., Ames Library		1
Oakland, Calif., Free Library		I
Oberlin College Library		1
Omaha Public Library		4
Paterson, N. J., Public Library		4
Pawtucket, R. I., Public Library		I
Peoria Public Library		4
Philadelphia Free Library		2
Philadelphia Library Company		2
Philadelphia, Mercantile Library		4
Pittsfield, Berkshire Athenæum Library		. 4
Plymouth, Eng., Public Library		Y

	Vols.	Pamph.
Portland, Ore., Public Library		4
Portsmouth, Eng., Public Library		i
Providence Public Library	I	3
Providence Athenæum Library		ĭ
Quincy, Ill., Public Library		Ī
Rochester, Reynolds Library		I
St. Giles Public Library, London, Eng		Ī
Salem Public Library	1	Ī
San Francisco, Mechanics' Institute	· .	8
San Francisco Public Library		9
Scranton Public Library		2
Seattle Public Library		8
Somerville, Mass., Public Library		ī
Springfield, Mass., Public Library		Ā
Syracuse Central Library		ĭ
Taunton Public Library		Ī
Toronto Public Library		Ī
University of Michigan Library		2
Warren County, Ill., Public Library		3
Washington, District of Columbia Public Library		1
Washington, Library of Congress	2	ž
Waterbury, Conn., Bronson Library	_	
Wilkes-Barre Osterhout Library		3 8
Wilmington, Del., Institute Library		ĭ
Windsor, Ont., Public Library		,
Worcester Co. Law Library		Ť
Worcester Public Library		÷
Troicester Lubic Ambiary		
Total	613	5,069

ANNUAL REPORT

Clerk of the Recorder's Court

OF THE

CITY OF DETROIT

For the Year Ending December 31, 1900.

DETROIT
THE THOS. SMITH PRESS
1901

ANNUAL

OF I

Clerk of the R:

CLERK'S

To the Honorable, the Common

Gentlemen:—In accordance Charter, I have the honor to submess transacted in the Recorder's 31, 1900.

The whole number of perso had is 2270, of which number the laws of the State, and 1886 for

CASES PENDING IN PREVIOUS REPORT.

Pending.	-	7	7	-	-	7		۰	•
Sentence suspended cost.	:	:	:	:	:	:	į		
Detroit House of Correction.		:	:	:	:	:	:	Ī	
State prison.	:	:	<u>:</u>			-	:	-	-
Released on recognizance.	:	:	:	:	:	:	÷		
Nolle Prosequi entered.	:	7	:	-	:	:	-	Ţ	•
Acquitted.	-	:		_		:	i	1	4
Convicted.	:	•	:	:	:	-	-	1.	-
Whole Number.	71	4	7	m	-	m	-		= :
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	•	:	:	:	:		:		***************************************
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CRIMES.	:	:		:	i	:	ij		:
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	em	arc	ţ	100	98	:	a		•
	zzl	L	n y	lau	losi	Š	ing		
	Embezziement.	Grand Larceny	Larceny from the person	Manslaughter	Not closing salcon after 11 o'clock at night	Perjury	Uttering and publishing a forged and Counterfeit Railroad ticket		
!	E	S	La	Ž	ž	Pe	ŭ		
		-							

CASES COMMENCED DURING CURRENT YEAR.

. CRIME.	umber,	'p	d.	beretai entered.	for not filing information.	on recognizance	ance forfeited.		Correction.	Currection.	.babended.	enspended costs		1
	W hole N	Convicted	Acquitte	Noile Pro	Keasons			State Pri State Hor	H slorsed	Pays a fi			Pending.	
Assault and battery (appeal)	•	-	-		<u> </u>	 -:	\ 	 	<u> :</u> :	-	:	<u> </u> :	 	
Assault with intent to do great bodily harm	. •	.4	-	:	:	:		-	- ; - ;					_
Assault with intent to kill and murder.	~~		-	:	- :	- :	 :	- <u>:</u>	- <u>:</u>	<u>:</u>	<u> </u>		_:	:
Areon	~	-		:		:	<u>_</u>	:		<u>:</u>		<u>:</u>	-	
Assault with intent to ravish	~	-	-	:	_ :	- :	$\frac{\cdot}{\cdot}$			_ <u>:</u>	<u>.</u>			:
Attempt to commit larceny			_:	_ :			- <u>÷</u>	_ <u>:</u>	-: -:	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	:
Відату.	~			-		•		_ <u>:</u>	:	:	<u>:</u>			
Breaking and entering dwelling house in day-time	∞	*	-	:	<u>-</u>	س		_ <u>:</u>	-: -:		-	:	_ <u>:</u>	:
Breaking and entering R.R. car in day-time	_	 :		:	<u>:</u> :	:	$\frac{\cdot}{\cdot}$	- :	<u>:</u>		<u>:</u>	-		:
Breaking and entering schoolhouse in day-time	*	:	:	:	 :	- :	- :			<u>:</u>	<u>:</u>	<u>:</u>	-	_
Breaking and entering warehouse in night-time	4	m	:		:	:		_	_	<u>:</u>	<u>:</u>	<u>:</u>	-	
Breaking and entering barn in day-time	m	_ !	ິຕ	:	:	:	=	_ <u>:</u>	-	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	:
Breaking and entering store at night-time	2	•	ຕ	-	-		-	_	<u>:</u>	<u>:</u>	-			_
*Breaking and entering laundry in day-time.	7	-	-	- :	•	·	÷			<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	:
Burglary and larceny	2	4	က	:	÷	:		~	.:	:	<u>:</u>	<u>:</u>	···	_
Concealing contract property	-	-	:	-	÷	÷	:	:	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	÷	:
Conspiracy	77	<u> </u>	~	-		-		÷	÷	÷	<u>:</u>	<u>:</u>	<u>:</u>	•

CASES COMMENCED DURING THE CURRENT YEAR-CONTINUED.

C R I R F.		Convicted Acquitted.	Nolle Prosequi entered.	Reasons for not filing information.	Released on recognizance	Recognizance forfeited.	State Prison.	State House of Correction.	Detroit House of Correction.	Pays a fine.	Sentence suspended.	Sentence suspended costs	Pending .
†Contempt of Court.	! _		 -:	<u> </u>	<u> </u>	1			T:	-	T:	T	:
Disorderly person on appeal	- <u>-</u>	-]	- 7			_:		<u> </u>		 :	-		'n
Embezziement		-9	:	-			m	7					90
Entering dwelling house in day-time with intent etc			:			:			_	-:	~	_ :	~
Entering church in day-time without breaking etc			: 	. :	:	:	_ :	_:		- :			' :
Entering store without breaking with intent etc	m		 			_ :			:				-
Failure to file bond etc.		:	-	. :				· .				-	-
Grand Larceny 23		12 1		-		_ :	71	m	*		-	:	ه ،
Indecent exposure of person	9			_	- :	:	i	:	-				, ;
Keeping and maintaining a gaming room	·	: و			_:	:	:			~	*		-
Larceny from the person 32		- ⁷³	7		_ <u>:</u>	:	n	~	1-	:	m		-
Larceny from dwelling house in day-time		7		· :	:	:	:		-	:	-		:
Larceny from office in day-time		:	<u>:</u>			:	:	:	-	•	-	:	
Larceny from store in day-time	_	:	_:	: :	_ :	:	i	:	-	-	:	:	:
Manslaughter 2	-:	:	<u>:</u>	_:		:	i	:	Ė		:	:	-
Marder	7	_				:_	-	:	:	-	:	:	:
	ر	_		<u>:</u>		÷_	:	-	÷	-	-	<u> </u>	:
tSentenced to County Jail.													

CASES COMMENCED DURING THE CURRENT YEAR-CONTINUED.

Pending.	:	=	೫	÷	9	m	11	77	:	7	-	-	14	:	•	-	:
Sentence suspended costs	:	:	7	:	:	:	÷	:	- - -	:	:	:	:	:	i	Ī	<u> </u>
Sentence suspended.	~	-	~	7	:	:	:	-	÷	-	:	:	-	Ī	-	-	:
Pays fine.	-:-	7	_	:			:	:		:	i	-	:	:	:	-	_
Detroit House of Correction.	-	i	i	:	-	:	Ī	-	Ē	:	-:				-		-:-
State House of Correction.	۲۲	:	:	:	i	:	:		_ :	i	-	:	-	:	<u>:</u>	:	
State Prison.	:	i	:		:	:	:		:	-	:	:	4	:	14	-	
Recognizance forfeited.	:	:	i	- <u>-</u>	:	:	_ :	:	-		:		:	-	:		÷
Released on recognizance	:	:	:	÷	:	÷	- <u>:</u> -	:	-	-	÷	÷	_	÷	-	-:-	÷
Reasons for not filing information.	<u></u>	•	-	•	:	:	- <u>÷</u>	<u>:</u>	:	÷	:	÷		:	<u></u> ;	<u>:</u>	÷
Nolle prosequi entered.	_	÷		:	:	:	<u>:</u>	;		÷	÷	÷	m	Ŧ	:	:	÷
Acquitted.	m	-	Ť	_	÷	÷	- i		-			<u>.</u>	- <u>:</u>	~	-	- -	-
Convicted.	'n	က	*	7	Ė	÷		<u>-</u>	;	-		<u>:</u>	•	:	~	÷	-
Whole Unmber.	6	15	R	19	٠	~		6		ю			==	- .	•		_
CRIME.	Malicious injury to vacant property	Not closing saloon after 11 o'lock at night	Not closing saloon on Sunday	Not closing saloon on legal holiday	Non-payment of Ilquor tax	Not filing liquor bond	Obstructing view of bar where liquors are sold	Obtaining property under false pretenses	Perjury	Petit larceny (appeal)	Placing obstruction on railroad track		Receiving stolen property	Robbery being armed with a dangerous weapou	Robbery not being armed	Selling liquors to minors	Stander (appeat)

COMMENCED DURING THE CURRENT YEAR-CONTINUED.

Pending.	-		:	٥	-	_	×	FI
Sentence suspended costs	<u> </u>	-:	- <u>:</u>	:	:		:	H
Sentenced suspended.			_ <u>:</u>	<u>:</u>				<u> </u> _
				<u>:</u>				
Correction.	<u> </u>	٠ :	<u>:</u>			<u>:</u>	:	2
Detroit House of		<u>:</u>			_:_			2
State House of Correction.		-7	<u>:</u>			:		8
State Prison.	(4	:	<u>:</u>	:	_:	:	_:	15
Recognizance forfeited.	:	:	:	:	÷		_:	
Released on recognizance	$\overline{}$	-		_: :		:		80
Reasons for not filing information		77	-	:	<u>-</u>	:	÷	6
Nolle prosequi entered.	-	4			:	-:	:	*
Acquitted.	<u> </u>	:	_	:	<u>:</u>		<u> </u>	22
Convicted.	m	m	-		:		-	50
Whole Number.	+	=	7	•	-	۳,	8	375
CRIME.	Taking improper liberties with a female child under sixteen years	Uttering and publishing a forged instrument	*Uttering and publishing a false and counterfeit railroad ticket	Unlawfully selling oleomargarine.	Unlawfully practising dentistry	Unlawfully practising medicine	Selling adulterated food.	Total

* Appealed to Supreme Court.

great bodily harm, 2; fined twenty-five dollars, 1; sentence suspended, 1; convicted of assault (charged with assault with intent to Convicted of lesser offenses than those charged, as follows: Assault and battery (charged with assault with intent to do do great bodily harm). 2; sentenced to the Detroit House of Correction for ninety days, 2; convicted of receiving stolen property (charged with grand larceny), 2; sentenced to the Detroit House of Correction for thirty days, 1; paid fine, 1; convicted of simple larceny (charged with grand larceny), 2; sentenced to thirty days in County Jail,1: paid fine of twenty dollars, 1; convicted of simple larceny (charged with robbery being armed), 1; sentenced to the Detroit House of Correction for seventy days, 1.

SUMMARY.

The whole number of persons sentenced to imprisonment for offenses against the general laws of the State was 74, as follows: to the State Prison, 26; to the Detroit House of Correction, 25; to the State House of Correction and Reformatory at Ionia, 20; to the Industrial School at Lansing, 1; to the County Jail, 2.

The aggregate time for which persons were sentenced to State Prison, 107 years and 1 month; to the Detroit House of Correction, 21 years and 7 months; to the State House of Correction and Reformatory at Ionia, 41 years and 3 months; to the County Jail, 7 months.

One person was sentenced to the State Prison for life.

One person was sent to the Industrial School until seventeen years of age.

STATE CASES.

Fines and costs and penalties for offenses against the criminal and liquor laws of the State were imposed and collected as follows:

NAME.	Fines.	Costs.	Total.
Peter Schaeffer.		\$ 10 00	
Charles Kohn		10 00	
Charles Heike.	\$ 25 00		
George Gies	ļ	10 00	
Frank Schemanski	25 00		 .
Andrew Cronin		10 00	
Philip J. Mogk	50 00		· · · · · · · · · · · · · · · · · · ·
John W. Doherty		10 00	
Arthur C. Melchers forfeited bond of August Hein	300 00		
Robert Trethaway	10 00	65 00	····· ·· ···
August Frabis	100 00	25 00	
Peter Cweda	25 00	10 00	
Fred Waterman	50 00		
William Lewis	20 00		
Charles Feltentrager	100 00	25 00	
Mary Soupnick	10 00	5 00	····· .
	\$715 00	\$ 180 00	\$ 895 00

CASES COMMENCED DURING THE YEAR 1900. For Violations of the Ordinances of the City.

ORDINANCE.	Whole Number.	Convicted	Acquitted.	Withdrawn, costs.	Withdrawn, no costs.	Fined.	Sentence Suspended.	Sentence suspended costs	Committed.	Pending.
Animals at large	30	29	1			2	27			
Barriers and colored lights	26	23	2			5	18		¦	1
Bathing	22	19	1		2		19			
Bicycles	136	125	2		9	39	86			
Building fires	6	6		••••			6			••••
Boulevards	2		2		. .		ļ			
Conveyances	22	18	2		2		18			••••
Depositing dirt	1	1				ļ	1			
Dirt	29	26			2	1	25			1
Disturbing the peace	5	2				2		ļ. .		3
Disorderly conduct	110	96	7		5	6	90			2
Dogs	222	194	10		18	ļ	194			
Drays	1	1					1		<u> </u>	
Electric equipment	12	9	ļ		3	2	7			
Expressmen	2	1	1			1	ļ			
Firearms	86	75	 .		11	4	71			
Fire hydrants	5	4	1		 	 	4		ļ	
Fire alarms.	1	1	 		ļ		1		اا	
False alarms	2	2				1	1		ļļ	
Fast riding	292	256	4		32	125	131			ļ .
Fast driving	42	31	1		8	1	30	ļ	l	2
Games	50	45	2		3	4	41			
Garbage	11	10	 		1	1	9		ļ	

CASES COMMENCED DURING THE YEAR 1900

For Violations of the Ordinances of the City-Continued.

; ORDINANCES.	Whole Number.	Convicted.	Acquitted.	Withdrawn, costs.	Withdrawn, no costs.	Fined.	Sentence Suspended.	Sentence suspended costs	Committed.	Pending.
Hackmen.	-	1			<u> </u>	1	=		_	-
Handcarts	1	16			1	7			•••	••••
Hawkers and Peddlers	88	79		١		5	74			
Foot walks	14	9		••••	2	1	8			• • • •
Inspection of boliers	1	3		•••	1		3		 	
Jumping on street cars	19	19		• • • •	•		19		•••	
Keeping house of ill-fame	2	•	2	••••			17		••••	
Licenses	1 -	94		i	19	4	90			
Manufacturers of bread	2	2	ĺ		1,7		2			
Markets.	20	16	1		1	2	14			2
Nuisances.	87	64	6		13	5	59			4
Numbering houses	1	1			13	-	1	· · · ·		7
Numbering wagons	1	20	2		6		20		,	1
Obstruction of streets.	1	3	3		2		3			1
	1	3	,		-	••••	3			
Obstruction of sidewalks.	,	7	1		1		7		••••	1
Obstruction and areas	1	1	1	•	1		`	ļ		
News boys	1	1				••••	1			
Parks	1	2		••••			2		••••	
Posting of placards	ì	1				••••	1			
Public entertainments	1	5	2		3	2	3			
Public property	1	6	••••	•••	2	2	4		· · · ·	
Public lighting	1	1					1			! !
Removal of snow	1	1			····		1		••••	.
Explosives	2		2		• • • •					
Snow on sidewalks	16	10	4		2	2	8		••••	••••
Scattering dirt	42	37	1	 -	4	1	36			
Sale of Coal	14	7	2	ļ	3	1	6			2

CASES COMMENCED DURING THE YEAR 1900 For Violations of the Ordinances of the City—Continued.

ORDINANCES.	Whole Number.	Convicted.	Acquitted.	Withdrawn, coats.	Withdrawn, no costs.	Fined.	Sentence Suspended.	Sentence suspended costs	Committed.	Pending.
Suspended articles	6	6	. .	 		ļ	6		l. .	
Storekeepers	5	2	1			ļ	2	 .		2
Steam railroad trains	3			ļ	3	 .	 	ļ		
Street railways.	24	18	ļ. .	ļ	6	1	17	 		
Smoke nuisances	2		ļ		1	ļ		 		1
Stands for conveyances	6	5	1				5			
Steamboats and vessels	1					ļ	ļ		ļ	1
Telegraph posts	2	2					2			
Tying of animals	67	62	1	ļ	4	7	55			
Prevention of fires	6	5			1	ļ	5			
Use of sidewalks	15	11	1		3	2	9			
Use of streets.	29	24		 .	2	1	23		·	3
Use of alleys	4	4	L	ļ		ļ	4			
Stands for conveyances	1	ļ	[.	 		1
Weights and measures	75	68	3	.	2	14	54	. .		2
Total	1886	1589	81		187	252	1337			29

Of the eight cases pending in the report for the year 1899, there were five convictions, one acquittal and two withdrawals.

Fines were imposed in two cases in which convictions were had, and sentence was suspended in the other three cases.

WARRANTS DRAWN.

Warrants were drawn on the County Auditors as follows:

Witnesses	\$ 2,546 60
Jurors	23,550 00
Attorneys, assigned in 78 cases	2,865 00
Total	\$28,961 60

Seven trials were had in which juries disagreed.

Two hundred and fifty-one persons declared their intention of becoming citizens of the United States, and certificates of citizenship were issued to four hundred and ninety-four (494) persons.

FINES AND COSTS IMPOSED IN ORDINANCE CASES.

The following statement shows the amount of fines and costs imposed during the year for violation of the City Ordinances:

TERMS.		FINES.	
January term.	\$	20	00
March term		92	00
May term		312	50
July term		183	00
September term		83	00
November term		16	00
Total	\$	706	50
Fines and costs in State Cases		895	00
Total	\$	1,601	50

STREETS, ALLEYS AND THE BOULEVARD.

Proceedings were had during the year in the matter of opening, widening and extending streets, alleys and the Boulevard, as follows:

Boulevard, through the property of the Michigan Central Railroad Company. Pending.

Leland Street, accross the premises of the Detroit, Grand Haven and Milwaukee Railroad Company. Pending.

Theodore Street, from Grandy to Field Avenue. Verdict in favor of opening confimed July 10, 1900. Damages, \$17,803.49.

Belvidere Avenue, from Jefferson to Mack Avenue. Verdict in favor of opening confirmed October 26, 1900. Damages, \$12,725 CO.

Twenty-third Street, from Poplar to Merrick Avenue. Verdict in favor of opening confirmed, May 8, 1900. Damages, \$3,838 72.

Fifteenth Street, from Warren Avenue to Merrick Avenue. Verdict in favor of opening confirmed, June 18, 1900. Damages, \$2,352.64.

Twenty-fifth Street, from Warren Avenue to Merrick Avenue. Veedict in favor of opening confirmed, December 5, 1900. Damages, \$1,396.41.

Twenty-sixth Street, from McGraw to Grand River Avenue. Verdict in favor of opening confirmed, May 31, 1900. Damages, \$3,027.25.

Beaufait Avenue, from Kercheval to Mack Avenue. Verdict in favor of opening confirmed, April 80, 1800. Damages, \$10,215.00.

Cavalry Avenue, from River Street to Lafayette Avenue. Verdict in favor of opening confirmed, December 1, 1900. Damages, \$25,826.59.

Stanley Avenue, from Williams to Grand River Avenue. Verdict in favor of opening coofirmed, October 23, 1900. Damages, \$3,682.00.

Orleans Street, from Wilkins Street to Forest Avenue. Verdict in favor of opening confirmed, May 19, 1900. Damages, \$11,603.00.

Frederick Street, from Helen to Sheridan Avenue. Pending.

Eastern Place, from Vinewood Avenue to Chope Place. Verdict in favor of opening confirmed, June 11, 1900. Damages, \$2,742 00.

King Avenue, from Brush Street to Oakland Avenue. Verdict in favor of opening confirmed, June 4, 1900, Damages, \$1,405.70.

Scovel Place, from Vinewood Avenue to Chope Place. Verdict in favor of opening confirmed, June 4, 1900. Damages, \$4,110.00.



Brown Place, from Vinewood Avenue to Chope Place. Verdict in favor of opening confirmed, June 5, 1900. Damages, \$1,674.40

Moore Place, from Vinewood Avenue to Chope Place. Verdict in favor of opening confirmed, June 6, 1900. Damages, 2.057.00.

Canton Avenue, from Champlain Street to St. Paul Avenue. Pending.

Erskine Street, 40 feet across the Detroit, Grand Haven and Milwaukee R. R. Company's right of way. Pending

Lafayette Avenue, from Twenty-fifth Street to the westerly City limits. Pending.

Beaublen Street, from Theodore Street to Harper Avenue to the width of £0 feet. Verdict in favor of widening confirmed, December 5, 1900. Damages, \$28,168.75.

John R. Street, from Holbrook Avenue to the northerly City limits. Pending.

St. Paul Avenue, from Van Dyke Avenue to the Cadillac Boulevard. Verdict in favor of opening confirmed, December 5, 1900. Damages, \$28,321,55.

Separation of the grades of Woodward Avenue and the Michigan Central R. R. Company, the L. S. & M. S. Ry. Company and the Grand Trunk Ry. Company of Canada. Pending.

Straightening Church Street, from 11th to 12th Streets. Verdict against straightening rendered, December 24, 1900.

Public alley in the block bounded by Clark, McKinstry and Lafayette Avenues and Porter Street where not already opened. Pending.

Public alley in the block bounded by Clark, McKinstry and Dix Avenues and Porter Street. Pending.

Public alley between Clark, McKinstry, Dix and Uthes Avenues. Pending.

Harvey Avenue, 60 feet wide, from Junction Avenue to Morrell Street, where not already opened as a public street and highway. Pending.

Anthon Street, 50 feet wide, from Junction Avenue to Morrell Street, where not already opened as a public street and highway. Pending.

Willis Avenue, from Moran Street to Mt. Elliott Avenue, 50 feet wide, where not already opened as a public street and highway. Pending.

Brooklyn Avenue, from Stanley Avenue to railroads, where not already opened, 60 feet wide, as a public street and highway. Pending.

Alexandrine Avenue, 70 feet wide, from Commonwealth Avenue to Grand River Avenue, where not already opened as a public street and highway. Pending.

Alley, where not already opened, in the block bounded by Thirteenth, Fourteenth, Lafayette and Howard. Pending.

STATE OF MICHIGAN,
COUNTY OF WAYNE,
CITY OF DETROIT.

I. JOHN A. GROGAN, Clerk of the Recorder's Court of the City of Detroit, do hereby certify, that the foregoing is a true copy and correct statement of proceedings had in said Court for the year ending December 81st, 1900,

IN WITNESS WHEREOF, I have hereeto set my hand and affixed the seal of the said Court, at Detroit, this 29th day of January, 1901.

JOHN A. GROGAN, Clerk.

CHIEF ACCOUNTANT'S OFFICE, February 26th, 1901.

To Hon. John A. Grogan, Clerk Recorder's Court.

DEAR SIR:

This is to certify that I have examined your Annual Report, submitted to me by the Committee of Ways and Means of the Common Council of the City of Detroit, for verification. On examination of your books and files, I find same to correspond with the amounts deposited with the City Treasurer. My examination covered the entire year of 1900. The Fines and Costs imposed in ordinance cases amount to \$706.50. The amount as stated above and submitted in your Annual report is correct.

Very respectfully,
FRANCIS J. DUCAT,
Chief Accountant.

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Thirty-Ninth Annual Report

OF THE

OFFICERS

OF THE

DETROIT HOUSE OF CORRECTION

TO THE

COMMON COUNCIL OF THE CITY OF DETROIT,

FOR THE YEAR 1900.

DETROIT FREE PRESS PRINTING CO.

Report of the Inspectors

OF THE

DETROIT HOUSE OF CORRECTION

TO THE

COMMON COUNCIL.

To the Honorable the Common Council of the City of Detroit:

GENTLEMEN—The Board of Inspectors of the Detroit House of Correction present herewith the thirty-ninth annual report of the Superintendent, together with the reports of the physician and teacher, the same being for the year ending December 31st, 1900.

As is known to you, in March last, the Institution through the death of Captain Joseph Nicholson suffered the loss of its able Superintendent, who had held the position continuously for a period of more than twenty-one years, and through whose efficient management the Institution has taken the prominent place it now occupies. In seeking a successor capable of carrying on the work in the same satisfactory manner, it was the unanimous sentiment of the Board that this could be best accomplished by appointing to the vacant position John L. McDonell, the former assistant of Captain Nicholson, and who for many years has been closely associated with him in all matters relating to the Institution. That our judgment was correct and our confidence not misplaced, observation, and the results obtained under his management as shown in the accompanying reports, have made apparent.

We are pleased to be able to report that we are now prepared to pay over to the City Treasurer the sum of \$35,000.00, when authorized by your honorable body to do so.

GEORGE E. AVERY,
MARVIN PRESTON,
F. Wm. LICHTENBERG,
JEREMIAH DWYER,

Board of Inspectors.

DETROIT, Feb. 20, 1901.

Superintendent's Report.

DETROIT HOUSE OF CORRECTION,

OFFICE OF THE SUPERINTENDENT.

To the Board of Inspectors:

GENTLEMEN—I have the honor of presenting herewith the thirty-ninth annual report of the Detroit House of Correction, the same being for the year ending December 31st, 1900.

I am pleased to be able to report that the health of the inmates has been unusually good and considering the exhausted, debilitated condition in which many were received, the comparatively few cases in the hospital department, as shown in the physician's daily reports, is indeed gratifying.

Sanitation, including ventilation and diet, has had careful attention at all times. Food of wholesome character and good quality has been liberally provided, and as much variety introduced as circumstances would permit.

The statistical tables herewith given show that there were committed here during the year 1751 prisoners, the average number in confinement for the year being 416, a decrease of 93 as compared with the average for the year 1899. Of those committed, 46% were sentenced for periods of from five to thirty days, and 80% for terms of ninety days and less.

Everything pertaining to the welfare of the inmates, looking to the betterment of their condition while in prison and with a view to fitting them to take their rightful place in the ranks of honest labor, upon their release, has had constant attention and consideration. The industrial features of the Institution being conducted along correct business lines, the same as with every well regulated manufacturing establishment, the inmates are assigned to that branch of labor to which they appear best adapted and is found practicable.

All are carefully instructed in the duties of the positions to which they are assigned, and as they become familiar therewith are required to perform the same in workmanlike manner and also to show a gradual proficiency in execution, thereby instilling in them habits of industry and qualifications that should equip and give them confidence to seek work in similar lines should they at the time of their release be inclined to break away from evil associations and manner of living.

To accomplish much in this direction with those committed for terms of but a few day's imprisonment and with a class of offenders such as vagrants, tramps and beggars, often deficient in intelligence, lacking in ambition, indifferent to their surroundings and caring nothing about their future condition, is extremely difficult, and it is therefore the more surprising how much can be and is accomplished with this class within a short time, many leaving here with a determination and confidence in their ability to make their way in the world by honest labor that were unsuspected by themselves at the time of their commitment.

Special attention has been given to the boys committed here for minor offences, such as petty larceny, disorderly conduct, etc., and as with many of them it is their first experience with prison life, every care is taken to prevent their coming into communication with the older persons in confinement here, and this we are enabled to do by reserving for this class the industry of brush making; work that is light in character, yet calls for activity and application. The strict discipline under which they are brought, prohibiting conversation or communication with one another, further tends to prevent any ill effect from their prison environment.

On three evenings in each week, for about nine months in the year, a school for the benefit of the inmates is conducted, attendance at which is compulsory upon all males under twenty-one years of age, and voluntary on the part of those over that age.

Advantage of this privilege is eagerly embraced by some, while others again, are indifferent, and would, if permitted, remain away altogether. Oftentimes, it is noticed, that those who at first show lack of attention soon become interested, and later evince a keen desire to improve the opportunity presented to them.

Nothing further than a common school education is attempted, and with the large percentage of short term people who are committed here, constantly arriving and departing, no little tact and patience are required in keeping up the interest in the studies. To those who already possess a fair education, our library, to which all have access, furnishes full opportunity for improving their minds, every effort being made to encourage a desire for reading on the part of the inmates.

The services in our chapel which all attend, are conducted each Sunday by the clergy of the city, assisted by volunteer musical talent from the various church choirs, and the close attention given is very generally commented upon.

The satisfactory condition of business throughout the country during the past year has had its effect upon the industries conducted here, and has permitted the marketing of our products at satisfactory prices, and notwithstanding the decreased number of inmates and the much larger percentage than formerly of short term prisoners with which to carry on the work, the financial results as detailed in the accompanying exhibits show a profit of \$42,759.46.

Respectfully submitted,

JOHN L. McDonrll,

Superintendent.

DETROIT, Feb. 20, 1901.

EXPERT ACCOUNTANT'S REPORT.

DETROIT, MICH., Jan. 29, 1901.

HON. GEO. E. AVERY,

Chairman Board of Inspectors, Detroit House of Correction:

DEAR SIR—I have carefully examined the books of the Detroit House of Correction for the year ending December 31, 1900, and have found everything correct.

The amount of cash on hand and in bank has been verified and found to be \$84.359.83, as shown by annexed statement.

The detailed monthly reports of the Institution have also been carefully examined and found correct.

Respectfully submitted,

PETER RUSH,

STATEMENT

Of the Receipts and Disbursements of the Detroit House of Correction for the year ending December 31, 1900, as shown by the books.

Cash on nand January I.	1900	\$ 74,937	18	1	1
	o, to Dec. 31, 1900		82		
	inted for			\$272,652	00
Disbursements from Jan.	1, 1900, to Dec. 31, 1900,			1 -7-5-	
as shown by books and	1,710 vouchers	128,202	17		
Amount paid City of Det	roit during year	60,000	· 00	ļ	
Total disbursements	5.			188,292	17
Cash on hand Janua	ary 1, 1901			\$ 84,359	83
	STATEMEN	T			
Of the Assets and L	iabilities of the Detro	it House	of C	Correction	4
_	by the Ledger, Janua		•		
	., <u></u>	_			
ASSI	ETS.				
Cash on hand and in ban	k	\$84,359	83		ı
Accounts receivable		22,787	33	i	'
Clothing and bedding, I	nventory	4,524	59	1	
Furniture and fixtures,	"	8,245	24	!	
			_	•	ļ
Provisions,	"	1,524	82		
Provisions, Engineer's department,	"	1,524 13,566		1	i
•	***************************************	,		1	
Engineer's department,	"	13,566	72	; ;	
Engineer's department, Light and fuel, Medical department, Barn,	" "	13,566 3,373	72 72	; ; [
Engineer's department, Light and fuel, Medical department, Barn, Library,	"	13,566 3,373 272	72 72 00	; ; !	
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs,	« « « « « «	13,566 3,373 272 1,915	72 72 00 25 84		
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense,	« « « « « « « « « « « « « « « « « « «	13,566 3,373 272 1,915 459 52	72 72 00 25 84 17		
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense, Chair department,	" " " " " " " " " " " "	13,566 3,373 272 1,915 459 52	72 72 00 25 84		
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense, Chair department, Button department,	" " " " " " " " " " " " " " " " "	13,566 3,373 272 1,915 459 52 110 53,808 9,374	72 72 00 25 84 17 02 16		
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense, Chair department, Button department, Brush department,	" " " " " " " " " " " "	13,566 3,373 272 1,915 459 52 110 53,808	72 72 00 25 84 17 02 16		
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense, Chair department, Button department,	" " " " " " " " " " " " " " " " "	13,566 3,373 272 1,915 459 52 110 53,808 9,374	72 72 00 25 84 17 02 16	\$211,982	71
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense, Chair department, Button department, Brush department,	" " " " " " " " " " " " " " " "	13,566 3,373 272 1,915 459 52 110 53,808 9,374	72 72 00 25 84 17 02 16	\$211,982	71
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense, Chair department, Button department, Brush department, Total assets	" " " " " " " " " " " " " " " " " " "	13,566 3,373 272 1,915 459 52 110 53,808 9,374 7,608	72 72 00 25 84 17 02 16 03 99	\$211,982	71
Engineer's department, Light and fuel, Medical department, Barn, Library, Repairs, General expense, Chair department, Button department, Brush department, Total assets	" " " " " " " " " " " " " " " " " " "	13,566 3,373 272 1,915 459 52 110 53,808 9,374 7,608	72 72 00 25 84 17 02 16	\$211,982	71

GENERAL STATEMENT OF THE BOOKS OF ACCOUNT OF THE DETROIT HOUSE OF CORRECTION. Table No. 1.

HI.	.S.	8	_	: :		: : 		::		:	_	: : -	_		_	2 75	<u>:</u>	.	<u>:</u>	:	:
LIABILI-	TIES.	\$211,070					:			: -			:	:	: : : :						:
	ES.	:	83	4 3	8			1 2	8	:	::			8.8	2 23	:	:	_ :	_:	:	:
RE.	SOURCES		\$84,359	0,245	1,524	3,373	272	1,915	459	:		21	53,808	9,374	22,787	:		:	:		
		လ	:	: :	:	: :	:	: :	:	:	: :	:	<u>:</u>	: :	: :	:	:	4	:	:	8
STOCK	ن. د	\$169,220	:		:		:		:	:	: :		:	:		:	:	42,759	: :		\$211,979
STC		<u> </u> :	:	: :	:	: :	:	: :	:	:	: :	:	:	: :	: :	:	:	:	:	8	8
	Dr.		:		:		:		:	:			:			:				\$211,979	\$211,979
Æ		<u>:</u>	:	: :	:	: :	:	: :	:	: 8	3,88		ક્ષ	22	:	:	:	:	0		
REPRESENTATIVE	Gain.		:		:	: : :	:		:		2,7,7		44,491	10,003	:	: -	: :		\$100,840	1 .	
ESE		:		4 6		200		: 4	3		: :	9	:	:	:	:	:	Ŷ	8		
REPR	Loss.	:			13,897	, 28 28 28 28 28 28	1,727	1,936	55	6	:	23,585			:	:		42,759	\$100,840		
ż		_:		4 8	200	2 2		1,5	84	:	: :	_		8 8		:	55				
INVEN-	TORY.			4.524	1,524	3,373	272	1,915	459	:		011	53,808	9,374 4,608		:	\$104.835			:	
ப்		8		: :		: :	:	::			3.8	_		5,5		75	8				
TRIAL BALANCE.		\$169,220		: :		-	:	: :	:	::	2,752		:	2,00	2 :	~	86 8208,588			:	
4.L.F		ı'	ဆိ			38		2			_	8	_	: :				::			
TRI	Dr.		₩	2.065	_	11,658		1.088		_					22,787		\$208,588	xk accou			
EMILOSOV BO BIEILE	IIILE OF ACCOUNT.	Stock	Cash	Clothing and bedding	Provisions	Light and fuel.	Medical department	Repairs	Library	Discharged prisoners	Interest	General expense	Chair department	Bush department	Accounts receivable	Accounts payable		Gain transferred to stock account	:	Credit to stock account	
	Folio		4	0 1	. 0	- 2	4	 181	2		<u> </u>	2 3	· •		- = •	-=					

Table No. 2.

FINANCIAL STATEMENT DECEMBER 31, 1900.

RECEIPTS FROM ALL SOURCES.	_	. 1	1	1
Clothing and bedding.	\$ 533	68		
Provisions.	204	68		
Engineer's department	56	37		
Light and fuel	-	44	i i	
Barn	7	∞		
Library	105	00		
Discharged prisoners		90		
Board.		og 68		
Interest	2,280			
General Expense.	_	00	1	
Chair department.	112,849	30	ı	
Button department	17,536	69	1	
Brush department	31,564	50	1	
	\$200,297	33		1
Inventory December 31, 1900	104,835	55	İ.	
	·		\$305,132	8
			t j	İ
DISBURSEMENTS.			1 !	!
Furniture and fixtures.	\$ 1,271	33	',	
Clothing and bedding	1,853	56	1	
Provisions.	12,821	50		
Engineer's department	4,366	14		
Light and fuel	8,200	63	!	
Medical department	1,687	48	!	
Barn	1,961	96	' '	
Repairs	1,042	56		
Library	131	72	:	
Discharged prisoners			<u>'</u>	
General expense.	23,537	:		
General expenses	59,597	71		
Chair department	6,337	92		i
<u>-</u>		72		
Chair department		. /- :	1	
Chair department	14,202	' '		1
Chair department	14,202 \$141,033	69	:	
Chair department	14,202	69	_	
Chair department	14,202 \$141,033	69	262,373	4:

Table No. 3.

FINANCIAL STATEMENTS DECEMBER 31, 1900.

nts and bills receivable	\$4,359 22,787 60,000 \$271,982 2 \$121,339 74,937 32,947 \$229,224 3	75 73 18 13	\$271,979 229,220 \$42,759	96 50
nts and bills receivable paid City of Detroit counts payable nts and bills receivable	\$4,359 22,787 60,000 \$271,982 2 \$121,339 74,937 32,947 \$229,224 3	73 18 13 04 54	229,220	50
nts and bills receivable paid City of Detroit counts payable iory ints and bills receivable	\$22,787 60,000 \$271,982 2 \$121,339 74.937 32,947 \$229,224 3	73 18 13 04 54	229,220	50
paid City of Detroit counts payable	\$121,339 74.937 32,947 \$229,224 3	71 75 75 73 18 13 04 54	229,220	50
counts payable	\$121,339 74.937 32.947 \$229,224	71 75 73 18 13 04 54	229,220	50
nts and bills receivable	\$121,339 74,937 32,947 \$229,224 3	75 73 18 13 04 54	229,220	50
nts and bills receivable	\$121,339 74.937 32,947 \$229,224 3	73 18 13 04 54	229,220	50
nts and bills receivable	74.937 32,947 \$229,224 3	18 13 04 54	229,220	50
nts and bills receivable	74.937 32,947 \$229,224 3	18 13 04 54		,
nts and bills receivable	74.937 32,947 \$229,224 3	18 13 04 54		·
nts and bills receivable	\$229,224 3	13 04 54		
counts payable	\$229,224	04 54		·
	3	54		·
	-			·
ain for year				·
ain for year			\$42,750	
	ļ!	1 1	1	46
Table No.	4 .			
tory	\$104,835	55		
ots from all sources		33		
	'-'	~	\$305,132	88
tory	\$121 230	,,		
•	11			
	14-1033	~	262,373	42
	11	1 1	,5/3	
in for year] [
	•	tory \$121,339 aditures 141,033	11. 1905 10	11

Table No. 5.

COMPARATIVE STATEMENT OF CASH, PROPERTY, ETC.

1900.					
Dec. 31.	Cash on hand	\$84,359	83		. 1
	Cash paid City of Detroit	60,000	∞		!
		\$144.359	83		! !
1899.	;	11100	ا ا		
Dec. 31.	Cash on hand	74,937	18	i.	
	Increase			\$69,422	65
1899. Dec 21	Accounts and bills receivable	\$32,947			
		¥32,947	13		
1900. Dec. 31.	Accounts and bills receivable	22,787	33		
,	Decrease.		35	10,150	8o
. 0	Deutedse			10,139	~
1899. Dec 21	Accounts payable	\$3	_	ĺ	
	recounts payable	, 43	54		! !
1900. Dec. 31.	Accounts payable	2	75		
3 3	Decrease	<u> </u>	-3		-
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				79
1899.					
Dec. 31.	Inventory	\$121,339	73		!
1900.					
Dec. 31.	Inventory	104,835	55		
	Decrease			\$16,504	18
	SUMMARY.				
Increa	se in cash	\$69,422	65		
	ase in accounts payable	4-3,422			
20010			79	\$69,423	44
Decre	ase in accounts and bills receivable	10,159	80	, ,,,,,	"
Decrea	ase in inventory	1	18	26,663	<b>68</b>
	Net gain for year				' : !
	Net gain for year			\$42,759	46
	الرازان والمراجية المنطور المراجع المستعلقات		<u> </u>	ا میدا	ا

### SUMMARY OF THE INVENTORY OF THE DETROIT HOUSE OF CORRECTION, DECEMBER 81, 1900.

Furniture and fixtures.	\$8,245	24
Barn	1,915	25
Library	459	84
Medical department	272	000
Provisions	1,524	82
Clothing and bedding	4,524	59
Chair department	53,808	16
General expense	110	02
Repairs	52	17
Light and fuel	3,373	72
Engineer's department	13,566	72
Button department	9,374	03
Brush department	7,608	99
Total	\$104,835	55

## STATEMENT OF PRISONERS.

Number in prison January 1st, 1900	464
Number received from January 1st, 1900, to December 31st, 1900,	
inclusive	1,751
Whole number in prison during the year	2,215
Number released from January 1st, 1900, to December 31st, 1900,	
inclusive	
Number remaining in prison December 31st, 1900:	
Males	
Females 60	
<del></del> 445	
Total	2,215
=	
WHOLE NUMBER DISCHARGED DURING THE YEAR.	
By expiration of sentence	1,414
By payment of fines	282
By order of court	36
Died	9
Pardoned	6
Transferred to insane asylum	II
Appealed	4
Paroled	5
Escaped from residence	I
Procured bail	2
Total	1,770
NUMBER RECEIVED EACH MONTH.	
Males. Females.	Total.
January	133
February 80 10	90
March 82 7	89
April	177
May	139

June .		Males.	Females.	Total. 186
July .		106	18	124
August .		. 150	35	185
September		131	24	1 55
October .		. 129	20	149
November		118	15	133
December		. 169	22	191
	Total ·	1,511	240	1,751

### NUMBER DISCHARGED EACH MONTH.

								Males,	Females.	Total.
January								125	20	145
February								. <b>9</b> 9	13	112
March								122	16	138
April .							2	. 123	12	135
May .							. '	129	20	149
June .								. 149	26	175
July .								142	24	166
August .								. 142	20	162
September								117	30	147
October .								. 130	23	153
November								133	18	151
December					:			. 120	17	137
	т.	1								
	10	tal	•	•	•	•	=	1,531	239 ====	1,770

### NUMBER REMAINING AT THE END OF EACH MONTH.

								Males.	Females.	Total.
January								392	60	452
February								373	57	430
March								333	48	381
April .								368	55	423
May .								357	56	413
June .								366	58	424
July .								330	52	382
August .								338	67	405
September								352	61	413
October .								351	58	409
November								336	55	391
December						٠.		385	60	445

ه مامه	DAILY	AVI	ERA	GE I	N P	RIS	ON	DU	RIN	G 1	HE	YE.	AR.			
Males .		•		•	•	•		•	•	•		•	•	•	•	359
F@males	•	•	•	•	•		•	•	•	•	•	•		•	-	57
	To	tal.		•	•			•	•	•		•	•			416
									Male				ales.		_	Total.
Highest nu	mber in	pris	on o	lurin	g the	e ye	ar,		408	3		(	58			476
Lowest nur	nber in	priso	on d	uring	the	ye	ar,		32	5		•	47			372
SHOWING	Γ	ENT URI											IOSE	E RI	ECI	CIVED
Police Cou	rt .	•		•	•	•			•	•		•	•			1,139
Recorder's				•			•	•		•	•	٠.		•	•	26
Wayne Cos	ınty, (o	utsid	e D	etroit	:)	•		•	•			• -	•		•	118
Alpena Co	ınty	•	•	•	•		•	٠		•	•	•		•	•	2
Arenac Cou		•		•	•	•		•	•	•		•	•		•	I
Bay County	•	•	•	•	•		•	•		•	•	•		•	•	. 18
Barry Cour	ity .	•		•	•	•		•	•	•		•	•		•	I
Branch Co	unty	•	•	•	•		•	•		•	•	•		•	•	. 2
Benzie Co	unty .	•		•	•	•		•	•	•	•	•	•		•	3
Clinton Co	unty	•	•	•	•		•	•		•	•	•		•	•	. 10
Calhoun C	ounty	•		•	•	•		•	•	•	•	•	•		•	. 21 . 2
Clare Cou	nty		•	•	•		•	•		•	٠	•		•		. 2
Chippewa	County			•	•	•		•	•		•	•	•		•	_
Charlevoi	County	y	•	•	•		•	•		•	•	•		•		. 7 1
Delta Cou	inty .			•	•	•		•	•		•	•	•		•	. I
Dickinson	County	1	•	•	•		•	•		•	•	•		•		. 10
Eaton Co	unty .	•		•	•	•		•	•		•	•	•		•	. 10
· Emmet C	ounty	•	•	•	•		•	•		•	•		•	•		. 19
Canesee (	County	•		•	•	•		•	•		•	•	•		•	. 1
Gogebic (	County	•	•	•	•		•	•		•	•		•	•		
Crotiat C	ounty	•		•	•	•		•	•		•	•	•		•	. 1
Cladwin	County		•	•	•		•	. •		•	•		•	•		
uilledale	County	•			•	•		٠.	•		•	•			•	
Liuran Co	ounty	•	•	. •			٠		_	•				•		• • 2
Ionia Co	unty	• '	•	٠.	٠.			٠.			٠.				•	
Coi	ıntV	•	•				-			-				·		59
r:ham (	county	•	•	٠.				٠.			•	٠.			•	. 3
	OULLY		•													2
tackson (	Comir	•	•	•												. (
(^01)	INLV		•	·									٠.			Į.
11 - 4/20	( Course)	•	•	•												. 1
			•	•												i
Lapeer Co	ounty .			•	٠.							•				
Lapeer	ntV		٠	•							_	•				
Lake Cou	n Coun	ty	•	•	•						•		•			
Lake ^{Cou} Livingsto		-														

Manistee County .													. 12
Macomb County .													. 8
Mecosta County .													. 6
Montmorency County.													2
Monroe County .													. 10
Muskegon County .													27
Montcalm County .		••											. 14
Mason County													1
Missaukee County													. 5
Oakland County													18
Ottawa County .													. 3
Ogemaw County													I
Osceola County .													. 6
Oceana County													1
Roscommon County													. 2
Saginaw County .													20
Shiawassee County													. 17
St. Clair County													28
Tuscola County .					•	•							. 3
Washtenaw County .													6
Wexford County												,	. 2
United States Courts .													17
Cinica States Cours .	•		-	-									
Total			•										1,751
Total	d fron	a th	e C	itv c	of De	troit	•						===
	d fron	n th	e C	ity c	of De	troit		•			•		1,165
Total Whole number received Elsewhere	d fron	n th	e C	ity c	of De	troit		•			•	•	1,165
Total Whole number received	d fron	n th	e C	ity o	of De	troit	•	•					1,165
Total Whole number received Elsewhere		•		•		•	•	DU					1,165 586 1,751
Total	Ce of	PR		•		•	•	DU			•		1,165 586 1,751 EAR.
Total	CE OF	PR		•		•	•	DU	RIN		rh		1,165 586 1,751 EAR.
Total	CE OF	PR:		•		•	•	DU	RIN			E Y	1,165 586 1,751 EAR.
Total	CE OF	PR:	ISO	•	S RE	CEIV	VED		RIN		ГН	E Y	1,165 586 1,751 EAR. 7
Total	CE OF	PR	ISO:	•		CEIV	•	DU	RIN	· · · · · · · · · · · · · · · · · · ·			1,165 586 1,751 EAR. 7
Total	CE OF	PR:	ISO:	•	S RE	CEIV	VED		RIN	IG	TH		1,165 586 1,751 EAR. 7 - 5 . 1
Total .  Whole number received Elsewhere	CE OF onths . ths	PR	ISO:	•	S RE	CEI	VED		RIN	1 <b>G</b> .	ГН		1,165 586 1,751 EAR. 7
Total	CE OF  conths  ths  nths	PR	ISO:	•	S RE	CEI	VED		RIN		TH		1,165 586 1,751 EAR. 7 5 1
Total	CE OF  conths  ths  nths	PR	ISO:	•	S RE	CEIV				16 .	TH		1,165 586 1,751 BAR. 7 . 5 . 1 . 7 . 1
Total	CE OF  conths  ths  nths	PR	ISO:	•	S RE	CEI			RIN	iG .	TH		1,165 586 1,751 EAR. 7 5 1
Total  Whole number received Elsewhere  Total  TERMS OF SENTENCE Five years  Four years  Three years and six more three years  Two years and six more three years  One year and eight more year and six monte one year and six monte one year.	onths ths ths	PR	ISO:	•	S RE	CEIV					TH		1,165 586 1,751 BAR. 7 5 1 7 1 7 1 3
Total  Whole number received Elsewhere  Total  TERMS OF SENTENCE Five years  Four years  Three years and six mort Three years and six mort Two years and six mort Two years and eight motone year and six mont One year and six mont One year  Ten months Nine months	CE OF  conths  ths  nths	PR	ISO:	•	S RE	CEIV					TH		7,165 586 1,751 EAR. 7,55 1,75 1,75 1,75 1,75 1,75 1,75 1,75
Total	onths ths ths	PR	ISO:	•	S RE	CEIV							7,165 586 1,751 EAR. 7,55 1,75 1,75 1,75 1,75 1,75 1,75 1,75
Total	onths ths ths	PR	ISO:	•	S RE	CEIV							7,165 586 1,751 EAR. 7,51 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751 1,751

Superintendent's Report.														Superintenaent's Report.														
Eighty-nine days																٠,							1					
Eighty-eight days																							2					
Eighty-five days																							6					
Eighty-three days																							I					
Eighty days .																							8					
Seventy-five days																							14					
Seventy days.			•																				8					
Sixty-five days	:																						I 22					
Sixty-two days																							I					
Sixty days .																							125					
Forty-five days																							2					
Thirty days .																							669					
Twenty days .																							41					
Fifteen days	_																						20					
Ten days .			•																				56					
Five days .		•		•		Ī		Ī	_			-		-		Ī			_	•		Ī	5					
In default of bail	٠		·	_	٠		٠				•				٠		·	_	Ī		•		19					
	_	•		٠		·		•		٠		·		·		٠		·		•		_						
Tota	ıI				•		•		•		•		•		•		•		٠		•	I	,751					

### PREVIOUS OCCUPATIONS.

Agents						15	Gilders				2
Actor						I	Glassblowers .	•			2
Barbers						36	Grocer				I
Bookkeepers .						6	Gardeners				6
Blacksmiths .						20	Hack drivers .				3
Boilermakers .						15	Harnessmakers				4
Bakers						7	Hostlers				24
Brass finishers						6	Horseshoer .				ı
Bartenders						3	Hoopmaker .				ı
Butchers Bootblacks						16	Ironworkers .				4
Bootblacks						4	Journalist				I
Broommakers .						2	Laborers				524
Boxmakers			•			4	Lathers				7
Ball player						1	Lumbermen .				11
Bell boys						3	Laundresses .				16
Band instrumen	it :	ma	ke	r		1	Lineman				ı
Bottler						1	Masons				20
Carpenters						22	Molders				24
Clerks						14	Machinists				13
Cigarmakers .						10	Messengers				5
Cooks						53	Machine hands				3
Coopers						3	Metal polishers				15
Coremakers .						11	Miners				3
Cabinetmakers						4	Music teacher .				I
Coachmen						2	Milliner				I
Chemist						1	No occupation				39
Carpet cleaner						ı	Newsboys				2
Carriage trimm	er					I	Nickel platers .				2
Chair caner Contracer						1	Nurse				I
Contracer						1	Painters				70
Candymakers .						2	Printers				14
Dressmakers .						3	Plumbers				9
Druggists						2	Porters				8
Detectives						3	Peddlers				I 2
Engineers						13	Physicians				5
Electrician						1	Plasterers				4
Editor						I	Patternmaker .				I
Elevator boy						1	Papermakers .				2
Farmers						67	Piano tuners .				2
Firemen						66	Pailmaker				
Furniture finish						6	Photographer .				1
Furniture move	rs					2	Poultry dealer .				
Fishermen						2	Railroad men .		_	_	14

•		S	up	es	729	itende	nt's Report.	21
Roofers						3	Spiritualist	I
Rivet heaters .						2	Sawyers	3
Reporters	•					2	Tailors	18
Servants						183	Teamsters	· 45
Sailors						40	Telegraph operators	3
Shoemakers .						17	Tinsmiths	9
Stonecutters .						6	Upholsterers	5
Seamstresses .						7	Veterinary surgeons	2
Salesmen						14	Waiters	34
Stovemounters						7	Wood carver	1
Steamfitters .						15	Woodworkers	3
Showman						ī	Whitewashers	2
Stavecutter						1	Wagonmaker	I
Soldiers						2	Weaver	1
Stenographer .						1	Window trimmers	2
Sawfiler						1	Wireworkers	2
Sailmaker						1	Total	
Shinglemaker .						1	lotai	.751
<b>-</b>					٠	NATIV	ITY.	
Australia						2	Maryland	3
Austria						- I	Missouri	12
At Sea	:		-			2	Massachusetts	10
Canada						181	Maine	3
California						2	Minnesota	1
Connecticut .						3	Mississippi	1
Delaware						2	New York	142
District of Colum						1	New Jersey	
Denmark						3	New Hampshire	4
England						47	North Carolina	3
France						4	Nebraska	I
Finland						2	New Mexico	1
Germany						146	Nova Scotia	3
Holland						3	Newfoundland	ı
						2	Norway	7
Isle of Man						1	Ohio	82
Ireland						102	Oregon	1
Illinois						28	Pennsylvania	44
Indiana						21	Prince Edwards Island	ï
						2	Poland	30
Italy						1		2
India			•			ī	Russia	6
Kentucky		-		-	-	18	Scotland	30
Louisiana						4	Switzerland	3
Michigan						7/2	South Carolina	2

# 22 Detroit House of Correction.

Sweden	11 8
CRIMES OR OFFENCES.	
Assault with intent to do great bodily harm	. 2
Assault with intent to do great bodily harm	117
Adultery	
Arson	I
Arson	I
Breaking into postoffice	8
Breaking and entering dwelling	5
Carrying concealed weapons	5
Common drunkards	48
Common prostitutes	52
Common prostitutes	
Drunkenness	406
Disturbing the peace	189
Disorderly persons	22
Debauchery	
Defrauding hotel	2
Drunkenness Disturbing the peace Disorderly persons Debauchery Defrauding hotel Embezzlement Entering office in day time with intent to steal.	17
Entering office in day time with intent to steal.	1
Forgery	1
False pretenses	28
Indecent exposure	2
Impersonating U. S. officer	1
Indecent exposure Impersonating U. S. officer Jumping on train in motion	12
Keeping house of ill-fame	4
Keeping house of ill-fame	4
Larceny from dwelling in day time	3
I argany from the nergon	Q
Lewd and lascivious cohabitation	6
Malicious injury to property . '	16
Non-support	24
Receiving stolen property	7
Resisting an officer	4
Lewd and lascivious cohabitation  Malicious injury to property  Non-support  Receiving stolen property  Resisting an officer  Simple larceny  Slander	428
Slander	3
Threats	I
Tipplers	. 5
Taking indecent liberties with female child	I
Slander	. 98

Superintendent's Report.	23
Unlawfully entering freight car	9
Unlawfully disposing of contract purchased property	í
	96
Vagrancy	4
Violating pension laws	I
Violating law relative to barbers	2
Total	51
SOCIAL RELATIONS.	
Married and having children	28
Married and having no children	
, , , , , , , , , , , , , , , , , ,	.19
	24
The first state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	70
	59
Total	
Total	<b>—</b>
EDUCATION.	
Could read and write	97
	29
Could neither read nor write	25
	51
AGE WHEN ADMITTED.	
	320
	301
	233
	·33 384
	98
• • • •	:15
Total	751
RELIGIOUS TRAINING.	
Roman Catholics	322
Protestants	100
Israelites	4
Without religious training	16
Total	751

### HABITS OF LIFE.

Claim to be temperate Admit themselves to be int	 temperate					262 1489
Total					_	1.751
					==	==
•	со	LOR.				
White						1 r Q r
White Black		•		• •	• •	161
Indians				· . · .	•	.0.
Total .						
Total .	• •		• •		. 1	.751
F	PREVIOUS	CONVICT	PACIF			
			•			
Received for the first time Recommitted once	• •	• •	• •	• •	. 1	1141
Recommitted twice			•	•	•	295
Recommitted three times	•	• •	• •		•	131
Recommitted four times		• •	•		•	54
Recommitted five times .	· . ·	•	• •	• •	•	24
Recommitted five times . Recommitted six times				• •	•	17
Recommitted seven times		· . · .	•	• •	•	9
Recommitted seven times Recommitted eight times				•	•	7
Recommitted nine times.		٠			•	6
					•	8
Recommitted ten times Recommitted twelve times Recommitted thirteen time				·	•	2
Recommitted thirteen time	s					2
Recommitted fourteen times	es .					2
Recommitted fifteen times		•				2
Kecommitted styteen times						I
Recommitted eighteen time	es .				•	1
Recommitted twenty-one t	imes				•	1
Recommitted twenty-one t Recommitted twenty-two t	imes					2
Recommitted twenty-three	times .				•	2
Recommitted twenty-six ti Recommitted twenty-seven Recommitted twenty-eight	mes .				•	1
Recommitted twenty-seven	times .					I
Recommitted twenty-eight	times .				•	2
Recommitted twenty-nine	times .					3
Recommitted thirty times		•				2
Recommitted thirty times Recommitted thirty-two times	nes .	•				2
Recommitted thirty-three	imes .	•			•	1
Recommitted thirty-three the Recommitted forty-seven to Recommitted forty-eight to	imes .	• •			•	I
recommend forty-cight th	mes	•			•	I
Recommitted fifty times	• •	• •	• •		•	2

Super	int	en	de	n	t's	5 .	$R_{i}$	ep	or	t.							25
Recommitted fifty-one times																	2
Recommitted fifty-two times																	3
Recommitted fifty-three times								•									2
Recommitted fifty-four times																	3
Recommitted fifty-five times																	2
Recommitted fifty-six times.																	I
Recommitted fifty-eight times																	1
Recommitted fifty-nine times																	I
Recommitted seventy-six time	es																1
Recommitted seventy-seven																	I
Total	•		•				•									=	1,751
THE YEAR ACTUAL! Between nine and ten years Between six and eight years	. ¥	KE		. I N		, ,		11	1 E	11				H		•	1 3
Between four and five years		•		•		•		•		•		•		•		•	
Between three and four years	•		•		•		•		•		•		•		•		7
Between two and three years		•		•		•		•		•		•		•		•	28
Between one and two years	•	_	•	_	•	_	٠		•	_	•		•		•		32
Between eight months and on	e v	ear		•		-				•		-		•		•	36
Between six and eight months			•				Ť		Ť		·				٠		88
Between four and six months														٠.			1
Between two and four months	3											:					467
Between one and two months															:		131
One month and less .				•						•							975
Total								•								•	1,770
Average time those discharge	d re	ema	ain	ed	it	ιc	on	fine	m	en	t	:				88	days

# Physician's Report.

To the Board of Inspectors:

GENTLEMEN—I respectfully submit herewith the report for the year 1900 of the Department under my charge.

The health of the inmates has been very good and while many are received in a nervous, exhausted condition, the results of long continued over indulgence in stimulants and narcotics, a few day's treatment in conjunction with the wholesome diet and cleanly surroundings of the Institution soon results in the improved physical condition of the patients.

The number of cases requiring hospital treatment have been fewer than for years, and to a great extent this is due to the excellent hygienic conditions that prevail.

Four thousand, three hundred and four original prescriptions were prepared during the year.

The mortuary tables appended and forming a part of this report showing the number of deaths and causes thereof, with dates of admission, are self-explanatory.

Respectfully submitted,

BERNHARDT JACOB, M. D.,

Physician to the Detroit House of Correction.

DETROIT, Feb. 20, 1901.

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# SHOWING THE NUMBER AND CAUSE OF DEATHS DURING THE YEAR 1,000.

	:	:	= =		<u>-</u>	<del>-</del> -			
Cause of death.	Consumption	Apoplexy	Erysipelas	Erysipelas	Tuberculosis	Accidental Death	Heart Disease	Typhoid Fever	Suicide
Date of death.	Jan 9, 1900	Jan. 22, 1900	Feb. 22, 1900	Mar. 17, 1900	April 24. 1900	May 22, 1900	July 7, 1900.,	Oct. 13, 1900	Nov. 14, 1900
Sentence. Date received. Date of death.	Dec. 28, 1897	Nov. 27, 1899	Dec. 11, 1899	Jan. 23, 1900	Oct. 30, 1897.	Мау 14, 1900	July 6, 1900	Sept. 20, 1900	Nov. 13, 1900
Sentence.	4 years	6 months	r year and 3 months	90 days	7 years	30 days	30 days	65 days	30 days
Crime.	Larceny	Disturbing the Peace.	Impersonating U. S. Officer	Larceny	Larceny	Drunkenness	Drunkenness	Larceny	Drunkenness
Where from.	Harrison Cole 22 yrs. Indian { U. S., Indian Ter- } Larceny	John M. Jolly go " White Police Court, Detroit. Disturbing the Peace. 6 months Nov. 27, 1899 Jan. 22, 1900 Apoplexy	Fred Guernsey 25 " White U. S., Michigan S. Officer } Jupersonating U.   1 year and   Dec. 11, 1899 Feb. 22, 1900 Erysipelas	Samuel Brown 23 " Black Police Court, Detroit. Larceny 90 days Jan. 23, 1900 Mar. 17, 1900 Erysipelas	Lyman Kincaid at " Indian   U. S., Indian Ter-   Larceny 7 years Oct. 30, 1897 April 24, 1900 Tuberculosis	Richard Watts 38 " White Police Court, Detroit. Drunkenness 30 days May 14, 1900 May 22, 1900 Accidental Death	James Hardy 57 " White Police Court, Detroit Drunkenness 30 days July 6, 1900 July 7, 1900., Heart Disease	Fred Payne 23 " White, Ionia Co Mich Iarceny 65 days Sept. 20, 1900 Oct. 13, 1900 Typhoid Fever	Christ Munge 36 " White Police Court, Detroit. Drunkenness 30 days Nov. 13, 1900 Nov. 14, 1900 Suicide
Age. Color.	Indian	White	White	Black	Indian	White	White	White.	White
Age.	22 yrs.	,, 05		23 "	; 18	38 "	15	23 "	36 "
NAME.	Harrison Cole	John M. Jolly	Fred Guernsey	Samuel Brown	Lyman Kincaid	Richard Watts	James Hardy	Fred Payne	Christ Munge

# Teacher's Report.

To the Board of Inspectors:

GENTLEMEN—I herewith submit a report of the Evening School under my care at the Detroit House of Correction. The total number enrolled since the summer vacation is 177, of which 25 could not read or write and only 40 possessed what might be called a semblance of an education.

The scholars are arranged into numerous classes, and assistant teachers are selected from the more advanced prisoners.

The school is also graded, as well as the circumstances will permit, into classes for black board exercises, illustrating the subjects taught. The aim of the school is to teach the three most important branches of a common education, reading, writing and arithmetic, and their application to the business matters of life.

No fads or isms have been introduced for ostentatious display, but our endeavor is to teach the practical and useful, and in this the school has been eminently successful.

Respectfully,

J. K. Moore,

Teacher.

DETROIT, MICH., January 1, 1901.

